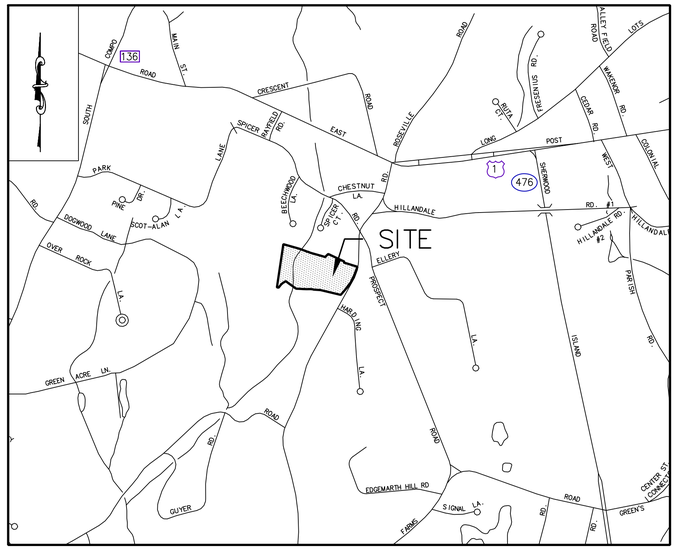
PROPOSED SITE IMPROVEMENTS

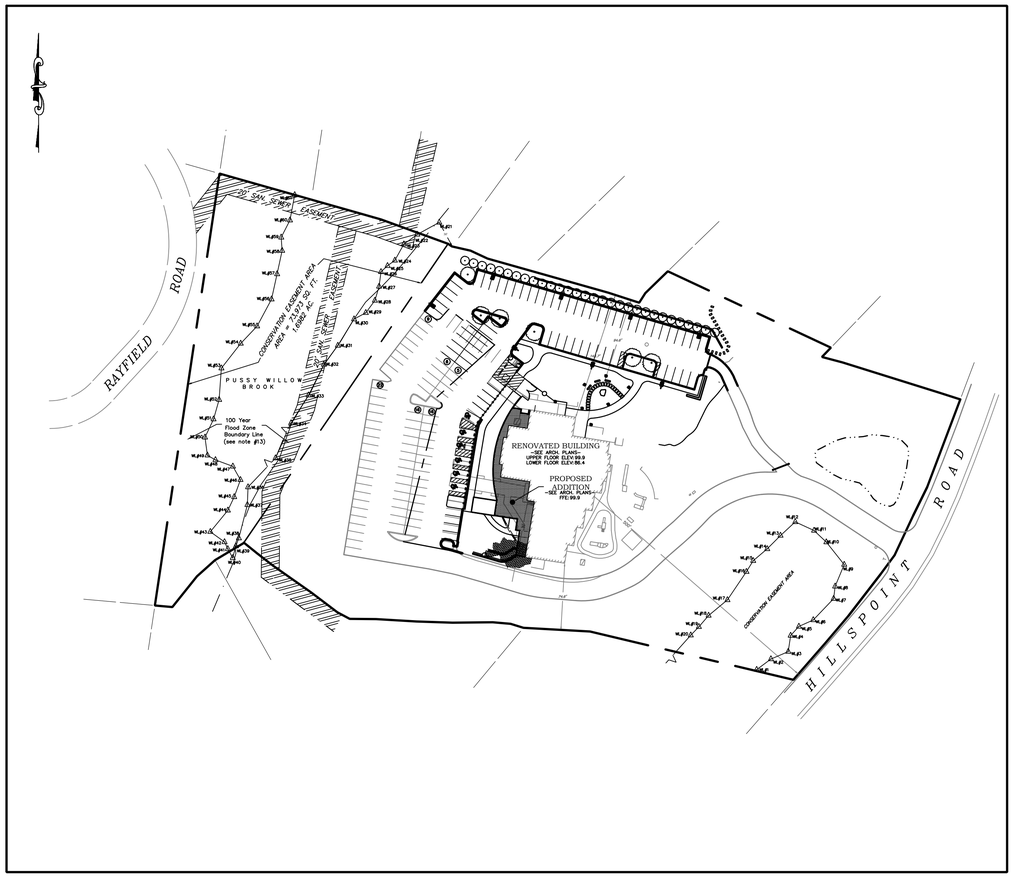
THE CONSERVATIVE SYNAGOGUE
28 HILLSPOINT ROAD
WESTPORT, CONNECTICUT

SITE DEVELOPMENT PLAN DRAWINGS

ZONE: AA/AAA



LOCATION MAP
SCALE: 1"=800'



PLAN
SCALE: 1"=80'

DRAWING LIST

SHEET #	DRAWING TITLE
01-01	COVER SHEET
11-01	SITE DEVELOPMENT PLAN
12-01	GRADING, DRAINAGE AND UTILITY PLAN
12-02	GRADING & DRAINAGE DETAIL - ENTRANCE
13-01	SOIL EROSION & SEDIMENT CONTROL PLAN
13-02	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS
19-01	SITE LIGHTING PLAN
19-02	SITE LIGHTING NOTES & DETAILS
20-01	CONSTRUCTION DETAILS AND NOTES

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Westport, Connecticut 06880

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Job No. 973

Drawing No. 01-01

GENERAL NOTES

1. BUILDING FOOTPRINT IS BASED OFF OF DRAWINGS OBTAINED FROM THE OWNER AND/OR ARCHITECT. CONTRACTOR SHOULD REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS & ACTUAL LOCATIONS OF UTILITY ENTRANCES.
2. LOCATION OF ALL UNDERGROUND UTILITIES DEPICTED HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATION OF VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC., AND COMPILING INFORMATION FROM PLANS SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES AND GOVERNMENT AGENCIES. ALL CONTRACTORS ARE REQUIRED BY STATE REGULATIONS TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND STAKEOUT OF UTILITIES PRIOR TO ANY EXCAVATION.
2. IF THERE ARE ANY VARIATIONS ON THIS MAP WITH WHAT IS FOUND OR DESIRED IN THE FIELD, THE CONTRACTOR SHALL CONTACT AND NOTIFY THE SITE ENGINEER IMMEDIATELY PRIOR TO COMMENCING THE RELATED WORK TO DETERMINE THE CORRECT COURSE OF ACTION.
3. B&B ENGINEERING, LLC MAKES NO GUARANTEE WITH THIS PLAN UNLESS B&B INSPECTS ALL ASPECTS OF CONSTRUCTION.
4. MAP REFERENCES
   a. BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A MAP ENTITLED "EXISTING CONDITIONS PLOT PLAN PREPARED FOR CONSERVATIVE SYNAGOGUE, INC., 28 HILLSPOINT ROAD, WESTPORT, CONNECTICUT" DATED: SEPTEMBER 7, 2016, REVISED: APRIL 17, 2017, PREPARED BY LEONARD SURVEYORS, LLC., WESTPORT, CONNECTICUT.
   b. SOIL TEST DATA OBTAINED FROM A PROGRESS PRINT PLAN ENTITLED "SITE DEVELOPMENT PLANS FOR PROPOSED ADDITIONS; SITE LAYOUT PLAN AND NOTES" DATED: 5/23/17, PREPARED BY RICHARD BENNETT AND ASSOCIATES, LLC, WESTPORT, CT

LOT AREA COVERAGE CALCULATION

BASE LOT CALCULATION (ALL ENTRIES IN SQUARE FEET)			
1	GROSS LOT AREA		= 322,495 SF
2	ABOVE-GROUND UTILITY EASEMENTS	= 0 SF	
3	STREET AND ROAD	= 0 SF	
4	OTHER EXCLUSIVE SURFACE EASEMENT	= 0 SF	
5	TOTAL EASEMENTS AND ROADS (Sum of Lines 2, 3 and 4)		= 0 SF
6	WETLAND AREA	= 53,656 SF	
7	STEEP SLOPES OF 25% OR GREATER AND TIDAL WETLAND	= 22,075 SF	
8	TOTAL WETLANDS/SLOPES (Sum of Line 6 & 7)	= 75,731 SF	
9	WETLANDS/SLOPES REDUCTION	0.8 x LINE 8	= 60,584 SF
10	BASE LOT AREA (Lines 1, Minus Line 5 and Line 9)		= 261,911 SF
MAXIMUM LOT AREA COVERAGE CALCULATION			
11	BASE LOT AREA (Copied from line 10, above)	= 261,911 SF	
12	SQUARE FEET OF TOTAL COVERAGE		= 84,335 SF
13	LINE 12 DIVIDED BY LINE 11 FOR A PERCENTAGE		= 32.2%
14	SQUARE FEET OF BUILDING COVERAGE		= N/A
15	LINE 14 DIVIDED BY LINE 11 FOR A PERCENTAGE		= N/A

SITE STATISTICS

ZONING DISTRICT "A/AA" PER §4-4, ZONE AA APPLIES	REQUIRED	EXISTING	PROPOSED
BULK STATISTICS			
MIN. LOT AREA	43,560 S.F. (1 ACRE)	322,495 S.F. (7.403 ACRES)	322,495 S.F. (7.403 ACRES)
BASE LOT AREA	-	261,074 S.F.	261,911 S.F.
MIN. BUILDING SETBACK (FRONT)	30'	286.8'	286.8'
MIN. BUILDING SETBACK (SIDE)	25'	74.6'	74.6'
MIN. BUILDING SETBACK (REAR)	25'	357.4'	349.8'
MAX. HEIGHT	40' (3 STORIES)	N/A	SEE ARCHITECTURAL PLANS
MAX. TOTAL COVERAGE	25% = 65,268 S.F.	BUILDING: 16,245 S.F.	EXISTING BUILDING: 12,794 S.F.
		PERGOLA: 270 S.F.	PROPOSED ADDITION: 3,503 S.F.
		SHEDS: 144 S.F.	WALKWAY CANOPY: 454 S.F.
		SANDBOX: 265 S.F.	EXISTING SANDBOX: 265 S.F.
		DRIVEWAY & PARKING: 50,991 S.F.	EXISTING SHEDS: 95 S.F.
		TOTAL: 67,915 S.F. (26.0%)	FUTURE WATER FEATURE: 20 S.F.
			EXISTING DRIVEWAY: 16,646 S.F.
			EXISTING PARKING: 31,620 S.F.
			PROPOSED PARKING: 18,938 S.F.
			TOTAL: 84,335 S.F. (32.2%)

PARKING STATISTICS

	REQUIRED	PROVIDED
PLACE OF WORSHIP ADDITIONAL 1,715 S.F. OF ASSEMBLY SPACE	1 SPACE FOR 35 SF OF NEW SANCTUARY SPACE 1,715 S.F. / 35 = 49 SPACES	100 SPACES (EXISTING) 53 SPACES TOTAL: 153 SPACES (INCLUDING 6 HANDICAP PER ADA REQUIREMENTS)
BUFFER STRIP & LANDSCAPING PLANTINGS	(1) SHADE TREE PER (10) REQUIRED PARKING SPACES. 5 SHADE TREES REQUIRED (1) EVERGREEN PLANTING TREE PER (10) FEET OF BUFFER LENGTH. 300 LF OF BUFFER AREA; 30 TREES REQUIRED	6 SHADE TREES 30 EVERGREEN TREES

THIS DOCUMENT, THE IDEAS, AND DESIGN INCORPORATED HEREON IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND THE PROPERTY OF B&B ENGINEERING, LLC, AND IS NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART FOR ANY EXTENSION OF THIS PROJECT OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF B&B ENGINEERING, LLC.

No.	Date	REVISION DESCRIPTION
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SCALE: 1"=30'

0 15 30 60 90

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SITE LAYOUT PLAN

OF

28 HILLSPOINT ROAD

WESTPORT, CONNECTICUT

PREPARED FOR

THE CONSERVATIVE SYNAGOGUE

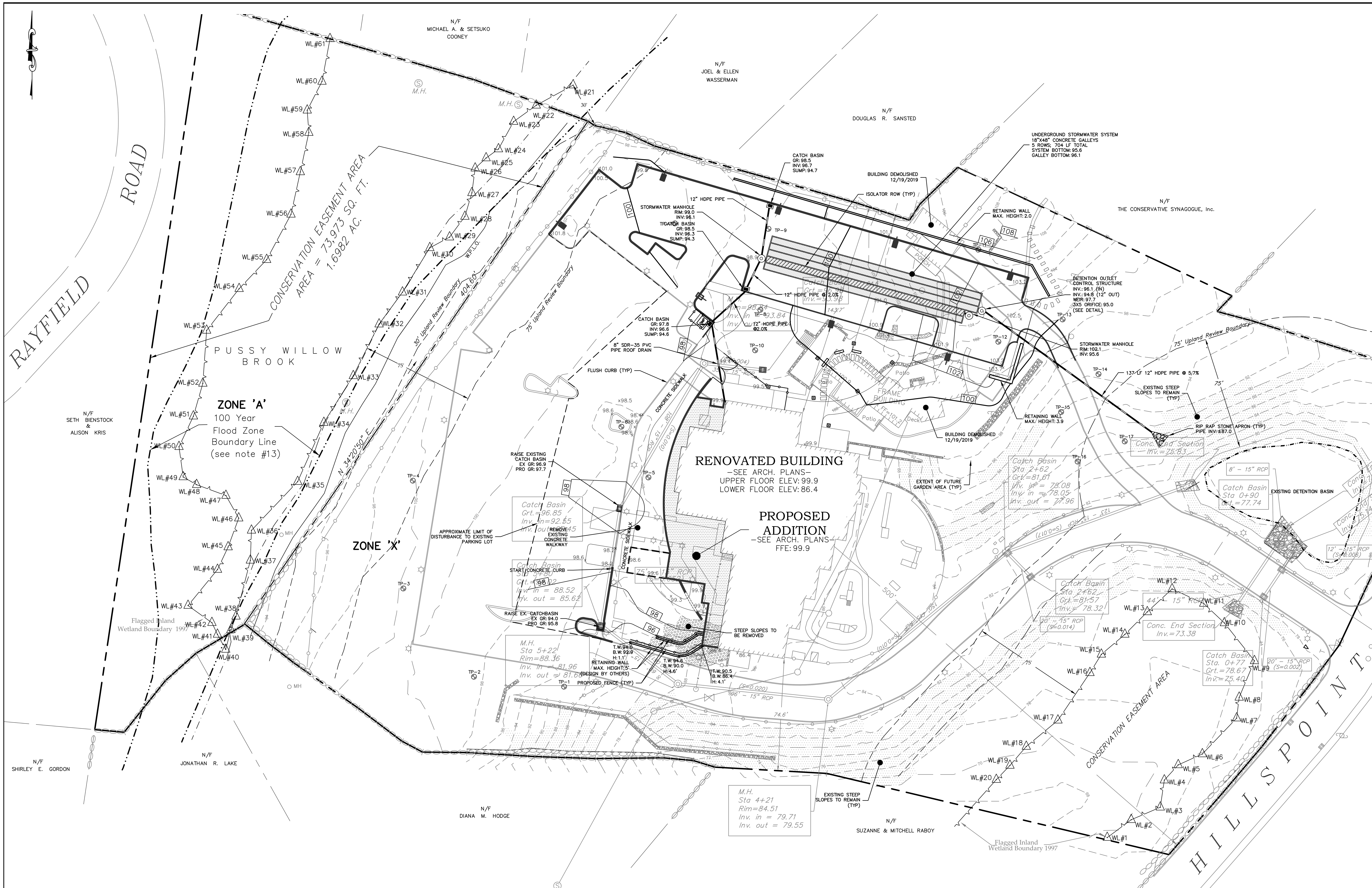
30 HILLSPOINT ROAD
WESTPORT, CONNECTICUT 06880

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, CT. P.E.,L.S. 23556

Date	1/10/2020
Scale	1"=30'
Job No.	973
Drawing No.	11-01

28 HILLSPOINT ROAD, WESTPORT, CT



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N/F
KATHLEEN NUSBAUM

28 HILLSPOINT ROAD, WESTPORT, CT

LEGEND

C.H.D.	Conn. Hwy. Dept. Monument	W.G.	Water gate valve		Evergreen Tree
Mon.	Monument	G.G.	Gas gate valve		Deciduous Tree
	Iron Pin to be Set	W	Water main (existing)		Swamp or Wetlands
	Conc. Monument to be Set	W	Water main (proposed)		Watercourse
I. Pipe	Iron Pipe		Hydrant	123	Existing Contours
I.P.	Iron Pin	WS	Water service lateral	123	Proposed Contours
D.H.	Drill Hole	G	Gas Main (existing)	R.C.P.	Reinforced Concrete Pipe
	Pile of Stones	G	Gas main (proposed)	C.M.P.	Corrugated Metal Pipe
F.P.	Fence Post	SS	Sanitary sewer lateral	PT A	Percolation Test Location
Fnd.	Found	S	Sanitary Sewer Main (existing)	TP 100	Deep Test Pit Location
n/f	Now or Formerly	S	Sanitary Sewer Main (proposed)		Stone Retaining Wall
	Property Line		Stone Wall		Retaining Wall
	Property Line (adjoining)		Barbed Wire Fence		Wetland Limit
	Building Setback Line		Fence	WL100	Wetland Flag Number
	Easement Line		Utility Pole		Wetland Setback
	Centerline		Existing Manhole		Benchmark
	Ledge or Boulders		Proposed Manhole		Silt Fence
	Earth or gravel fill		Existing Catch Basin/Pipe		Well (existing)
×200.0	Existing Spot Elevation		Proposed Storm Pipe		Well (proposed)
x123.4	Proposed Spot Elevation		Proposed Catch Basin		Anti-Mud Tracking Pad
INV:	Invert Elevation of Pipe		Building (existing)		

EXCAVATION STATISTICS

	MAXIMUM ALLOWED	PROVIDED
FILL AND EXCAVATION VOLUME	$\frac{1}{2}$ (322,495 SF X 0.25 X 10 FT)/27=14,930 CY	1,800 CY CUT 1,092 CY FILL TOTAL = 2,892 CY
MAX. FILL OR EXCAVATION HEIGHT	10'	3.6'

No.	Date	REVISION DESCRIPTION
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SCALE: 1"=30'
0 15 30 60 90

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GRADING, DRAINAGE AND UTILITY PLAN
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PREPARED FOR

THE CONSERVATIVE SYNAGOGUE
30 HILLSPOINT ROAD
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Date	1/10/2020
Scale	1"=30'
Job No.	973
Drawing No.	12-01

SEDIMENTATION & SOIL EROSION SPECIFICATIONS

1. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

2. ALL CONSTRUCTION ACTIVITIES SHALL PROCEED SO THAT POLLUTION OF ANY WETLANDS, WATERCOURSES, WATERBODY, AND OR CONDUIT CARRYING WATER, ETC. DOES NOT OCCUR. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE EROSION ON THE SITE.

3. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

IMPLEMENTATION NOTES

1. THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE. ALL CONTROL MEASURES ARE TO BE MAINTAINED IN AN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. ADDITIONAL MEASURES ARE TO BE INSTALLED IF NECESSARY OR REQUIRED DURING CONSTRUCTION PERIOD.

2. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABLIZATION TO BE SCHEDULED AS SOON AS PRACTICAL.

3. POST AND FABRIC SILTATION BARRIERS SHALL BE INSTALLED AT THE TOE OF ALL CRITICAL CUT AND FILL SLOPES. SILT FENCES AND BARRIERS MUST BE CLEANED OR REPLACED WHEN SOIL HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

4. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

5. SEDIMENT TRAPS, IF APPLICABLE, MUST BE CLEANED WHEN CAPACITY HAS BEEN REDUCED BY AN AVERAGE OF 2' OVER ITS TOTAL AREA OR TO 80% OF ITS DESIGN VOLUMES, WHICHEVER OCCURS FIRST.

6. SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN AND IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.

7. FILL MATERIAL SHALL BE FREE FROM DEBRIS PERISHABLE OR COMBUSTIBLE MATERIAL AND FROZEN OR WET EARTH OR STONES LARGER THAN 6 INCHES IN MAXIMUM DIMENSION. FILL SHALL BE PLACED IN MAXIMUM 12 INCH LOOSE LIFTS AND COMPACTED TO WITHIN 90% OF THE MODIFIED PROCTOR TEST RESULT.

8. PAVEMENT BASE COURSE MUST BE PLACED IN ALL PROPOSED PAVEMENT AREAS UPON COMPLETION OF FINE GRADING.

9. PERMANENT LANDSCAPED AREAS SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE PRIOR TO PERMANENT SEEDING.
   - 9.1. TOPSOIL PREPARATION:
     - 9.1.1. TOPSOIL SHOULD BE A MINIMUM OF FOUR INCHES DEEP (COMPACTED) BEFORE SEEDING.
     - 9.1.2. HAVE TOPSOIL TESTED FOR PH, ADD LIME AS NECESSARY TO ACHIEVE PH OF 6.5. APPLY FERTILIZER AT A RATE OF 300 POUNDS PER ACRE OR SEVEN POUNDS PER 4,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP DRESSING.
     - 9.1.3. WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE ALL CLAY OR SILTY SOIL AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEED BED WHEREVER FEASIBLE.
     - 9.1.4. REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMP, OR OTHER UNSUITABLE MATERIAL.
     - 9.1.5. INSPECT SEED BED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACT, THE AREA MUST BE RE-TILLED AND COMPACTED AS ABOVE.
   - 9.2. SEED MIXTURE (APPLY AT A RATE OF 200 POUNDS/ACRE):
     - 9.2.1. 10% KENTUCKY BLUEGRASS – BARON MIX
     - 9.2.2. 20% PERENNIAL RYEGRASS
     - 9.2.3. 70% TURF TYPE TALL FESCUE

10. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR ALL PAVED ROADWAYS ON AND OFF SITE AND MUST ENSURE THE SITE IS FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR ANOTHER APPROVED METHOD.

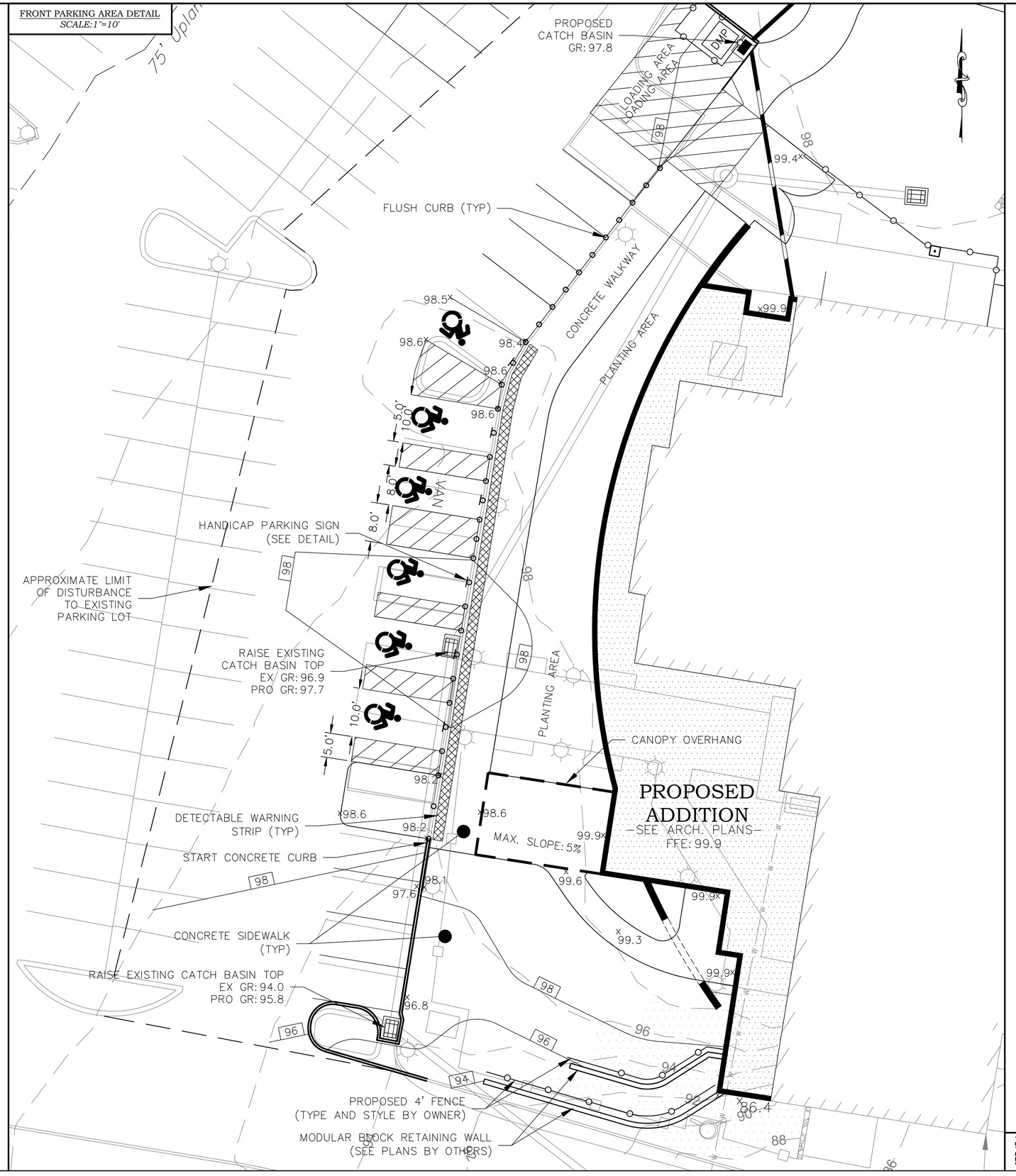
11. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED ON A DAILY BASIS AND CLEANED IMMEDIATELY AFTER EACH STORM.

12. WHERE DEWATERING IS NECESSARY, THERE SHALL NOT BE A DISCHARGE DIRECTLY INTO WETLANDS OR WATERCOURSES. PROPER METHODS AND DEVICES SHALL BE UTILIZED TO THE EXTENT PERMITTED BY LAW, SUCH AS PUMPING WATER INTO A TEMPORARY SEDIMENTATION STRUCTURE OR BOWL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, OR FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF PUMPING OPERATION CAUSES TURBIDITY PROBLEMS, THE OPERATION SHALL CEASE UNTIL FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED.

13. THE RESPONSIBILITY FOR: IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN, INFORMING ALL CONCERNED OF THE REQUIREMENT OF THE PLAN; NOTIFYING THE PLANNING AND ZONING COMMISSION, ITS DESIGNATED REPRESENTATIVE OF ANY TRANSFER OF RESPONSIBILITY AND SEEING THAT A COPY OF THE PLAN IS RECEIVED BY ANY SUCCESSOR IN INTEREST TO THE TITLE OF THE LAND OR ANY PORTION THEREOF IS ASSIGNED TO THE OWNER OF RECORD.

14. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION, WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.

FRONT PARKING AREA DETAIL
SCALE: 1"=10'



28 HILLSPOINT ROAD, WESTPORT, CT

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GRADING & DRAINAGE DETAIL - ENTRANCE
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Date	1/10/2020
Scale	
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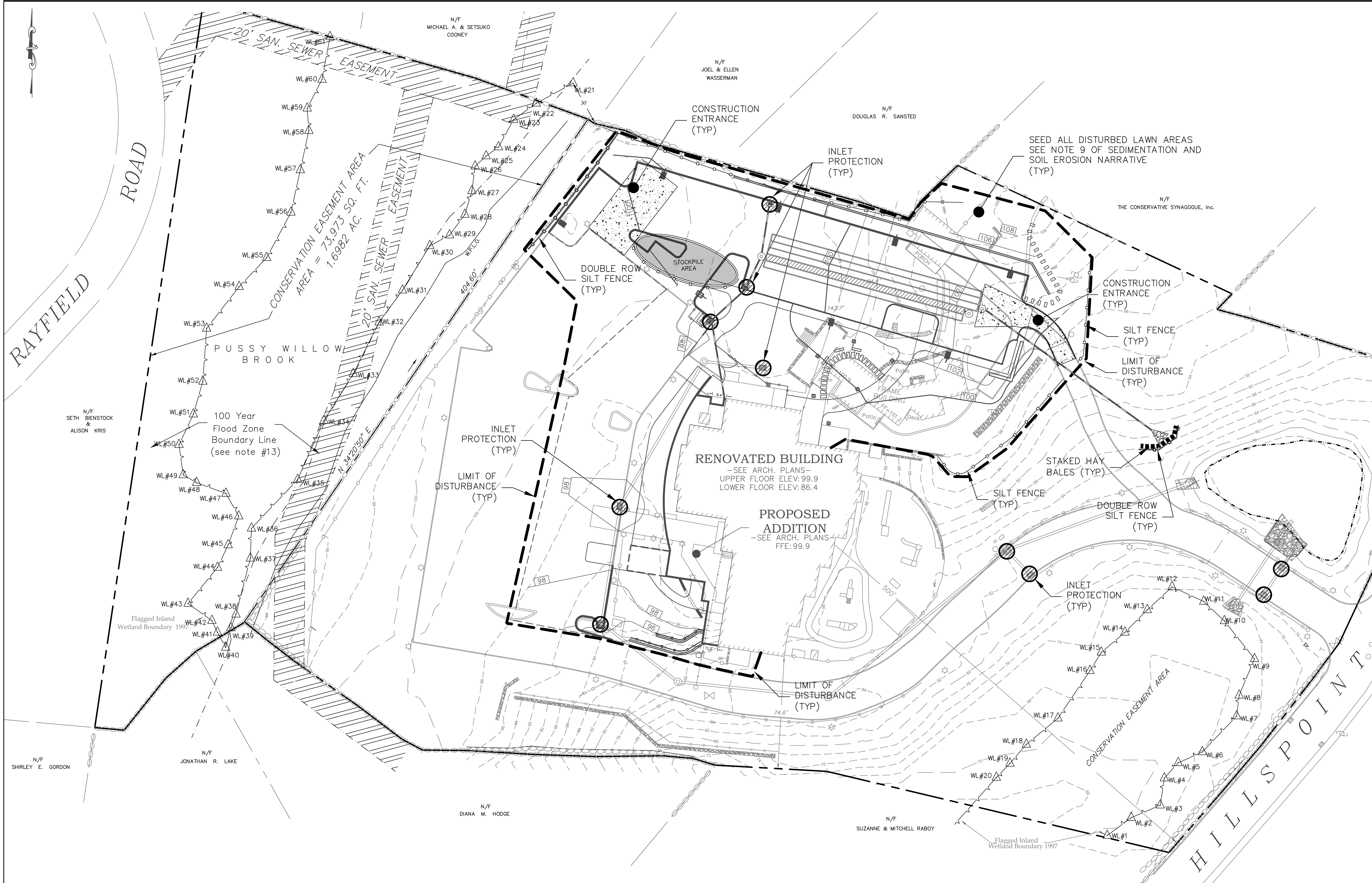

LEGEND

- SILT FENCE
- ANTI-MUD TRACKING PAD
- LIMIT OF DISTURBANCE
- STAKED HAY BALES
- INLET PROTECTION

28 HILLSPOINT ROAD, WESTPORT, CT

LEGEND

C.H.D.	Conn. Hwy. Dept. Monument	W.G.	Water gate valve	Evergreen Tree
Mon.	Monument	G.G.	Gas gate valve	Deciduous Tree
	Iron Pin to be Set	W	Water main (existing)	Swamp or Wetlands
	Conc. Monument to be Set	W	Water main (proposed)	Watercourse
I. Pipe	Iron Pipe		Hydrant	123 Existing Contours
I.P.	Iron Pin	WS	Water service lateral	123 Proposed Contours
D.H.	Drill Hole	G	Gas Main (existing)	R.C.P. Reinforced Concrete Pipe
	Pile of Stones	G	Gas main (proposed)	C.M.P. Corrugated Metal Pipe
F.P.	Fence Post	SS	Sanitary sewer lateral	PT A Percolation Test Location
Fnd.	Found	S	Sanitary Sewer Main (existing)	TP 100 Deep Test Pit Location
n/f	Now or Formerly	S	Sanitary Sewer Main (proposed)	Stone Retaining Wall
	Property Line		Stone Wall	Retaining Wall
	Property Line (adjoining)		Barbed Wire Fence	Wetland Limit
	Building Setback Line		Fence	WL100 Wetland Flag Number
	Easement Line		Utility Pole	Wetland Setback
℄	Centerline		Existing Manhole	Benchmark
	Ledge or Boulders		Proposed Manhole	Silt Fence
	Earth or gravel fill		Existing Catch Basin/Pipe	Well (existing)
×200.0	Existing Spot Elevation		Proposed Storm Pipe	Well (proposed)
x123.4	Proposed Spot Elevation		Proposed Catch Basin	Anti-Mud Tracking Pad
INV:	Invert Elevation of Pipe		Building (existing)	

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0 15 30 60 90

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SOIL EROSION AND SEDIMENT CONTROL PLAN

OF

28 HILLSPOINT ROAD

WESTPORT, CONNECTICUT

PREPARED FOR

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Drawing No.	13-01

SEDIMENTATION & SOIL EROSION NARRATIVE

PROPOSED DEVELOPMENT

1. CONSTRUCTION WILL INCLUDE DEMOLITION, FILL PLACEMENT, EXCAVATION, CURBING, PAVING, LANDSCAPING, AND BUILDING CONSTRUCTION. ALL DEMOLITION DEBRIS AND SOIL REMOVAL RELATED TO CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAWS GOVERNING SUCH ACTIVITIES.

2. THE DETAILED SEDIMENTATION AND SOIL EROSION MEASURES ARE SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN (DRAWING # 13-01). THE PROPOSED MEASURES HAVE BEEN DESIGNED TO PREVENT THE MIGRATION OF SOIL SEDIMENT FROM THE SITE.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE SOIL EROSION AND SEDIMENT CONTROL PLAN, AS WELL AS THE INSPECTION & MAINTENANCE PROCEDURES AND THOROUGHLY OUTLINED ON DRAWING # 13-01 PREPARED FOR THE PROJECT BY B&B. THE CONTRACTOR IS OBLIGATED TO REVIEW, UNDERSTAND, AND AGREE TO ALL THE REQUIREMENTS OF THE PLAN AS WELL AS THE FOLLOWING NOTES.

2. THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE APPROVED & INSTALLED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY AND THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

3. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION, AND DISTURBANCE OF SITE CONTRIBUTORY DRAINAGE AREAS. THE OWNER OR ITS CONTRACTOR SHALL INSPECT, REPAIR AND REMOVE ALL SOIL EROSION AND SEDIEMNT CONTROL DEVICES, AS INDICATED HEREIN.

4. DISPOSAL OF COLLECTED SEDIMENT SHALL BE MADE TO AREA DESIGNATED BY THE OWNER'S SOIL ENGINEER.

5. FILTER FABRIC/SILT FENCE SHALL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.

6. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING/LANDSCAPED AREAS SHALL BE REMOVED FROM THE SITE IMMEDIATELY, IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAW. ALL TOPSOIL TO BE USED IN LANDSCAPED AREAS SHALL BE STORED/STOCKPILED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAW STANDARDS.

7. ALL AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.

8. SEDIMENT DISPOSAL AREAS AND TOPSOIL STOCKPILES NOT SCHEDULED FOR CONSTRUCTION ACTIVITIES WITHIN THIRTY (30) DAYS OF DISTURBANCE SHALL BE STABILIZED AS FOLLOWS:

   a. GROUND LIMESTONE AT A RATE OF 135 LBS. PER 1,000 SF.

   b. FERTILIZER AT A RATE OF 14 LBS. PER 1,000 SF USING A 10-20-10 ANALYSIS OR AN EQUIVALENT.

   c. ANNUAL RYE GRASS SEEDING APPLIED AT A RATE OF NOT LESS THAN 1 LB. PER 1,000 SF.

   d. MULCH ALL NEWLY SEEDED AREAS WITHIN 80 LBS. OF SALT HAY OR SMALL GRAIN STRAW PER 1,000 SF.

9. BETWEEN OCTOBER 15 AND MARCH 15, WHEN DISTURBED AREAS ARE SCHEDULED FOR IMMEDIATE LANDSCAPING, THEY MAY BE MULCHED AND SEEDED PER ITEM D ABOVE.

10. PAVEMENT BASE COURSE MUST BE PLACED IN ALL NEW ROADWAY AREAS UPON COMPLETION OF FINE GRADING.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAVED ROADWAYS ON AND OFF-SITE AND MUST BE KEPT FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHOD.

12. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

13. SILT FENCES AND BARRIERS MUST BE CLEANED OR REPLACED WHEN SOIL HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

14. SEDIMENT TRAPS MUST BE CLEANED WHEN CAPACITY HAS BEEN REDUCED BY AN AVERAGE OF 2' 0" OVER ITS TOTAL AREA OR TO 25% OF ITS DESIGN VOLUMES, WHICHEVER OCCURS FIRST. ALL SEDIMENT TRAPS OR BASINS SHALL PROVIDE A MINIMUM OF 134 CF OF WATER STORAGE PER ACRE DRAINED AND SHALL BE MAINTAINED UNTIL FINAL STABILIZATION OF THE CONTRIBUTING AREA.

15. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDER DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT WHICH PRODUCES IN EXCESS OF 0.1 INCHES.

16. ALL EXPOSED SUBSURFACES WILL BE TREATED WITH 6" OF TOPSOIL PRIOR TO FINAL STABILIZATION.

17. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE PRIOR TO PERMANENT SEEDING.

18. CONTRACTOR TO INSTALL A STRAW/COCONUT FIBER BLENDED BIOGRADEABLE SOIL EROSION MATTING ON ALL PROPOSED BASIN SLOPES ONCE PERMANT SEEDING AND PLANTING HAS BEEN COMPLETED AS OUTLINED. THE MATTING SHALL BE INSTALLED AND STAPLED TO THE SLOPES PURSUANT TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS. ANY DEVIATIONS FROM THE PROPOSED INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR SHALL SUBMIT A SAMPLE OF THE PROPOSED MATTING FOR REVIEW PRIOR TO INSTALLATION.

19. SOIL EROSION AND SEDIMENT CONTROL SHALL INCLUDE, BUT NOT BE LIMITED TO, OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE THE ABOVE MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE WITH THE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

20. ANY CONVEYANCE OF THIS PROJECT, PRIOR TO ITS COMPLETION, WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.

21. PERMANENT

A. LAWN AREAS - AREAS DESIGNATED AS LAWN, OR DISTUBED AREAS NOT DESIGNATED FAR ANY OTHER PLANTING SHALL BE PERMANENTLY STABILIZED BY SEEDING WITH THE FOLLOWNG SEED MIXTURE AT A RATE OF 200 POUNDS/ACRE:

   10% KENTUCKY BLUEGRASS - BARON MIX
   20% PERENNIAL RYEGRASS
   70% TURF TYPE TALL FESCUE

NOTES

o. SEED AT A RATE OF 15 LBS/ACRES
b. FOR SPRING SEEDING, APPLY A NURSE CROP OF OATS AT A RATE OF 20 LB./ACRE
c. FOR FALL SEEDING, APPLY A NURSE CROP OF BARLEY AT A RATE OF 20 LBS./ACRE
d. ANY SOIL HAVING A PH OF 4 OR LESS CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM TWELVE INCHES OF SOIL HAVING A PH OF FIVE OR MORE PRIOR TO SEED BED PREPARATION.
e. LIME - THREE TONS PER ACRE, GROUND LIMESTONE INCORPORATED FOUR INCHES INTO SOIL
f. FERTILIZER - 500 LBS. PER ACRE, 10-20-10 INCORPORATED FOUR INCHES INTO SOIL.

B. GENERAL SEEDING NOTES

a. FINAL SEED MIXTURES, RATES & SIEWPECIES TO BE DETERMINED BASED ON SCD REV
b. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 1) OR THE FALL (SEPTEMBER 1 TO OCTOBER 30).
c. ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A BROAD-SPECTRUM NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
d. IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL WHERE APPLICABLE.
e. CONTINUOUS MOISTURE FOR 4-6 WEEKS MUST BE INSURED TO ALLOW PROPER GERMINATION.

C. WEED CONTROL / MAINTENANCE

a. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSER AS SOME OF THE MEADOW MIX MAY BE DAMAGED.

b. AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH.

c. MOW IN WETLAND AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR WETLAND AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 - AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF MEADOW MIX.

D. MULCHING SHALL BE DONE AT THE RATE OF SEVENTY TO NINETY POUNDS PER 1,000 SQUARE FEET WITH UNROTTED SALT HAY.

E. LIQUID MULCH BINDERS MUST BE USED TO ANCHOR SALT HAY, HAY OR STRAY MULCHES.

a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CREATED BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE

b. USE ONE OF THE FOLLOWING: SYNTHETIC OR ORGANIC BINDERS, BINDERS SUCH AS CURASOL DCA-70, PETRO SET, TERRA TACH, HYDRO MULCH AND AEROSPRAY MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER OF ANCHOR MULCH MATERIALS. BINDERS CONTAINING PETROLEUM PRODUCTS SHALL NOT BE USED.

c. NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE TO THE EXCLUSION OF OTHER PRODUCTS.

F. FILL MATERIAL SHALL BE FREE FROM DEBRIS, PERISHABLE OR COMBUSTIBLE MATERIAL AND FROZEN OR WET EARTH OR STONES LARGER THAN THREE INCHES IN MAXIMUM DIMENSION.

G. CONSTRUCTION AREAS SHALL BE PERIODICALLY SPRAYED WITH WATER UNTIL THE SURFACE IS WET TO CONTROL THE GENERATION OF DUST.

H. ALL REVISIONS AFTER APPROVAL HAS BEEN GRANTED SHALL BE FORWARDED TO THE APPROPRIATE DISTRICT FOR REVIEW.

I. THE LOCAL GOVERNING AUTHORITY SHALL RECEIVE WRITTEN NOTIFICATION SEVENTY TWO HOURS BEFORE THE START OF ANY CONSTRUCTION.

J. SEEDED PREPARATION:

i) TOPSOIL SHOULD BE A MINIMUM OF SIX INCHES DEEP (COMPACTED) BEFORE SEEDING.

ii) HAVE TOPSOIL TESTED FOR PH, ADD LIME AS NECESSARY TO ACHIEVE PH OF 6.5. APPLY FERTILIZER AT A RATE OF 300 POUNDS PER ACRE OR SEVEN POUNDS PER 4,000 SQUARE FEE USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP DRESSING.

iii) WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE ALL CLAY OR SILTY SOIL AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEED BED WHEREVER FEASIBLE.

iv) REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMP, OR OTHER UNSUITABLE MATERIAL.

v) INSPECT SEED BED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACT, THE ARE MUST BE RETILED AND FIRMED AS ABOVE.

K. CONTRACTOR SHALL INSTALL A FENCED AND GATED LOCATION WITH AN IMPERVIOUS FLOOR FOR STORAGE OF HAZARDOUS MATERIALS WITH A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL AVAILABLE.

22. INSPECTIONS/MAINTENANCE POST CONSTRUCTION

A. CATCH BASINS AND STORMWATER QUALITY CHAMBERS SHALL BE INSPECTED A MINIMUM FOUR TIMES PER YEAR. ONE OF THESE INSPECTIONS SHALL OCCUR PRIOR TO THE WINTER SEASON AND ONE IN THE EARLY SPRING ONCE WINTER SANDING OPERATIONS HAVE CEASED AND PAVED AREAS HAVE BEEN SWEPT.

B. INSPECTIONS SHALL INCLUDE A VISUAL ASSESSMENT OF THE CONDITION/FUNCTION OF ALL THE COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM. CONDITION OF CATCH BASINS AND MANHOLES SHOULD BE DETERMINED. INTERNAL COMPONENTS OF THE STORMWATER QUALITY CHAMBERS SHOULD BE ASSESSED AND THE VOLUME OF SEDIMENTS WITHIN THE CHAMBERS SHOULD BE DETERMINED.

C. SEDIMENTS SHALL BE REMOVED FROM WATER QUALITY CHAMBERS WHEN 70% OF THE AVAILABLE SEDIMENT STORAGE WITHIN THE UNIT HAS BEEN HAS BEEN CONSUMED.

D. A WRITTEN RECORD OF INSPECTIONS/MAINTENANCE SHALL BE KEPT BY THE PROPERTY OWNER AND SHALL BE MADE AVAILABLE TO TOWN OFFICIALS UPON REQUEST.

INSPECTION & MAINTENANCE PROCEDURES DURING CONSTRUCTION

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN SOIL EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES. ALL INSPECTIONS AND MAINTENANCE OF THE SOIL EROSION CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION SOIL EROSION AND SEDIMENT CONTROL GUIDELINES AND THE TOWN GUIDELINES.

A. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT WHICH PRODUCES PRECIPITATION IN EXCESS OF 0.1 INCHES.

B. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS OR OTHER MEASURES ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

C. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

D. SILT FENCES WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.

E. THE SEDIMENT TRAP, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 25 PERCENT OF THE DESIGN CAPACITY.

F. TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTH GROWTH.

G. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.

H. THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SELECTING AND TRAINING THE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR THESE INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT INSPECTION AND MAINTENANCE REPORT.

I. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE JOB SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ONSITE IN GOOD WORKING ORDER. THEY WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS.

J. DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING STORMWATER SYSTEMS.

K. REPORT TO THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION WITHIN 24 HOURS ANY NONCOMPLIANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN THAT WILL ENDANGER PUBLIC HEALTH OR THE ENVIRONMENT. FOLLOW UP WITH A WRITTEN REPORT WITHIN 5 DAYS OF THE NONCOMPLIANCE EVENT. THE FOLLOWING EVENTS REQUIRE 24 HOURS REPORTING: A) ANY UNANTICIPATED BYPASS WHICH EXCEEDS ANY EFFLUENT LIMITATION IN THE PERMIT, B) ANY UPSET WHICH EXCEEDS ANY EFFLUENT LIMITATION IN THE PERMIT, AND C) A VIOLATION OF A MAXIMUM DAILY DISCHARGE LIMITATION FOR ANY OF THE POLLUTANTS LISTED BY THE EPA IN THE PERMIT TO REPORTED WITHIN 24 HOURS. THE WRITTEN SUBMISSION MUST CONTAIN A DESCRIPTION OF THE NON-COMPLIANCE AND ITS CAUSE; THE PERIOD OF NON-COMPLIANCE, INCLUDING EXACT DATES AND TIMES, AND IF THE NON-COMPLIANCE HAS NOT BEEN CORRECTED, THE ANTICIPATED TIME IT IS EXPECTED TO CONTINUE; AND STEPS TAKEN OR PLANNED TO REDUCE, ELIMINATE, AND PREVENT RECURRENCE OF THE NON-COMPLIANCE.

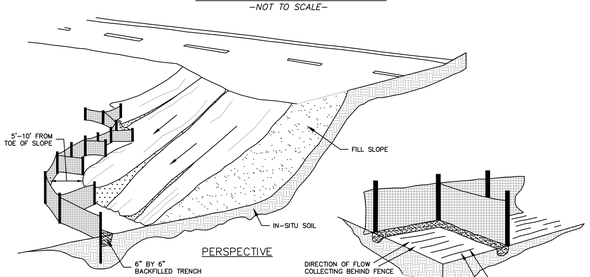
L. RELEASE OF HAZARDOUS SUBSTANCES OR OIL IN EXCESS OF REPORTABLE QUANTITIES (AS ESTABLISHED UNDER 40 CFR 110, 40 CFR 117 AND 40 CFR 302) MUST BE REPORTED. FORM G-1 PROVIDES FURTHER DETAILS ON THE NOTIFICATION AND REPORTING PROCESS.

CONSTRUCTION SEQUENCE

1. CONTACT THE TOWN ZONING, CONSERVATION, & ENGINEERING DEPARTMENTS TO SCHEDULE A PRE-CONSTRUCTION MEETING. UPON CONCLUSION OF THIS MEETING, BEGIN MOBILIZATION OF EQUIPMENT & ASSUMING TOWN IS IN AGREEMENT.
5. ESTABLISH TEMPORARY STAGING AREA FOR ANY EQUIPMENT TO BE USED.
6. INSTALL CONSTRUCTION ENTRANCES.
7. FLAG LIMITS OF CLEARING FOR THE PROJECT.
8. INSTALL SILT FENCE.
9. CLEAR, GRUB, CHIP, OR LOG THE SITE TO THE LIMITS OF CLEARING.
10. DISPOSE OF STUMPS AND BOULDERS IN ACCORDANCE WITH TOWN AND STATE REGULATIONS.
11. REMOVE AND STOCKPILE EXISTING TOPSOIL. SURROUND STOCKPILE WITH SILT FENCE IF NEEDED, SEED STOCKPILE SHOULD THE SEASONAL TIMING AND LOCATION REQUIRE.
12. INSTALL PERMANENT STORM DRAINAGE STRUCTURES.
13. INSTALL UNDERGROUND UTILITIES.
14. ROUGH GRADE PARKING LOT AND DRIVEWAY AREAS. INSTALL ASPHALT BINDER COURSE.
15. UTILIZE PARKING AREA FOR PARKING AND STAGING AREA.
16. BEGIN BUILDING CONSTRUCTION.
17. UPON COMPLETION OF BUILDING ADDITION, INSTALL TOPSOIL AND LANDSCAPING. FINAL GRADE AND STABILIZE ALL AREAS THROUGHOUT CONSTRUCTION.
18. INSTALL ASPHALT FINAL COURSE ON PARKING AREAS.
19. STRIPE PARKING LOTS.
20. REMOVE DEBRIS AND SOIL EROSION MEASURES WHEN APPROPRIATE.

SILT FENCE WITH WINGS

-NOT TO SCALE-

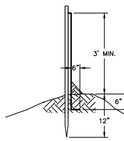


PERSPECTIVE

INSTALLATION NOTES:
1. EXCAVATE AND SECURE BOTTOM 6" OF SILT FENCE BELOW GRADE AS SHOWN.
2. EXCEPT FOR THE END POST, DRIVE ALL POSTS INTO THE GROUND AT BACK SIDE OF TRENCH SPACED A MAXIMUM OF 10 FT O. C.

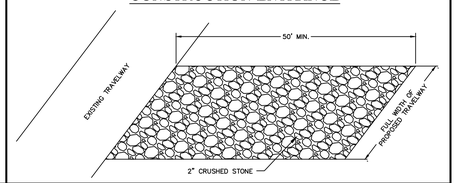
MAINTENANCE:
1. INSPECT THE SILT FENCE AT LEASE ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DEWATERING OPERATIONS, INSPECT FREQUENTLY BEFORE, DURING AND AFTER PUMPING OPERATIONS.
2. REMOVE THE SEDIMENT DEPOSITS OR, IF ROOM ALLOWS, INSTALL A SECONDARY SILT FENCE UP SLOPE OF THE EXISTING FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF OF THE EXISTING FENCE.
3. WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF ADDITIONAL CONTROLS (E.G. TEMPORARY STABILIZATION OF CONTRIBUTING AREA, DIVERSIONS, STONE BARRIERS) ARE NEEDED TO REDUCE FAILURE RATE OR REPLACE FENCE. CONTACT SITE ENGINEER TO DETERMINE PROPER COURSE OF ACTION.
4. MAINTAIN THE FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
5. REMOVE THE FENCE BY PULLING UP THE SUPPORT POSTS AND CUTTING THE GEOTEXTILE AT GROUND LEVEL. REGRADE OR REMOVE SEDIMENT AS NEEDED, AND STABILIZE DISTURBED SOILS.

WING DETAIL

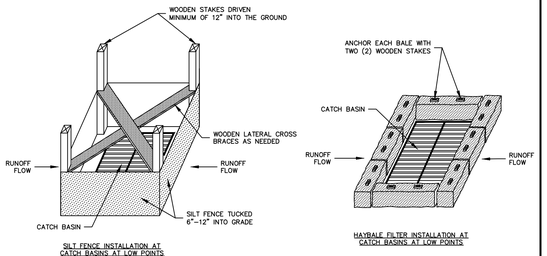


SECTION

CONSTRUCTION ENTRANCE



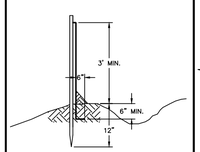
CATCH BASIN EROSION CONTROL



SILT FENCE INSTALLATION AT CATCH BASINS AT LOW POINTS

HAYBALE FILTER INSTALLATION AT CATCH BASINS AT LOW POINTS

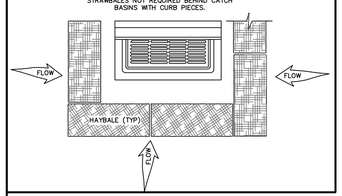
SILT FENCE



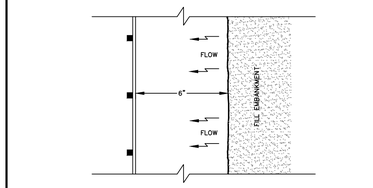
INSTALLATION NOTES:
1. EXCAVATE AND SECURE BOTTOM 6" OF SILT FENCE BELOW GRADE AS SHOWN.
2. EXCEPT FOR THE END POST, DRIVE ALL POSTS INTO THE GROUND AT BACK SIDE OF TRENCH SPACED A MAXIMUM OF 10 FT O. C.

INLET PROTECTION

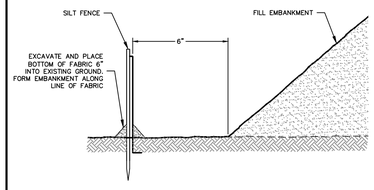
STRAWBALES NOT REQUIRED BEHIND CATCH BASINS WITH CURB PIECES.



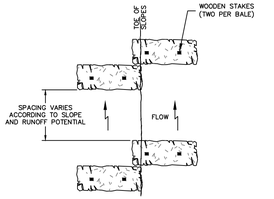
EROSION PROTECTION DEVICES



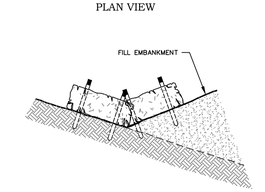
PLAN VIEW



SECTION VIEW



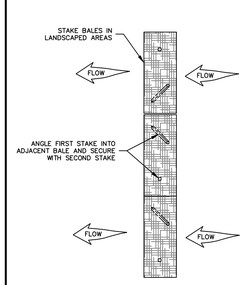
PLAN VIEW



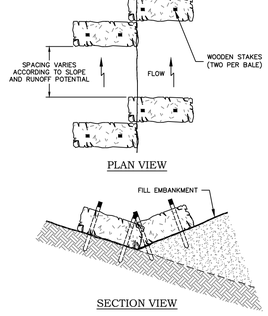
SECTION VIEW

HAY BALE EROSION PROTECTION

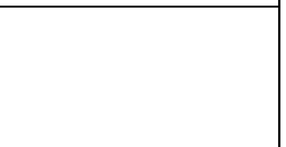
TRANSVERSE SLOPE TREATMENT



TOE OF SLOPE TREATMENT



PLAN VIEW



SECTION VIEW

LEGEND

■ C.H.D.	Conn. Hwy. Dept. Monument	○W.G.	Water gate valve
■ Mon.	Monument	○G.G.	Gas gate valve
●	Iron Pin to be Set	W	Water main (existing)
■	Conc. Monument to be Set	W	Water main (proposed)
◉ I. Pipe	Iron Pipe		Hydrant
● I.P.	Iron Pin	WS	Water service lateral
○ D.H.	Drill Hole	G	Gas Main (existing)
	Pile of Stones	G	Gas main (proposed)
○ F.P.	Fence Post	SS	Sanitary sewer lateral
Fnd.	Found	S	Sanitary Sewer Main (existing)
n/f	Now or Formerly	S Ⓢ	Sanitary Sewer Main (proposed)
	Property Line		Stone Wall
	Property Line (adjoining)		Barbed Wire Fence
	Building Setback Line		Fence
	Easement Line		Utility Pole
℄	Centerline		Existing Manhole
	Ledge or Boulders		Proposed Manhole
	Earth or gravel fill		Existing Catch Basin/Pipe
x123.4	Existing Spot Elevation		Proposed Storm Pipe
INV.	Proposed Spot Elevation		Proposed Catch Basin
	Invert Elevation of Pipe		Building (existing)

		☆	Evergreen Tree
		○	Deciduous Tree
			Swamp or Wetlands
		123	Watercourse
		123	Existing Contours
		[123]	Proposed Contours
		R.C.P.	Reinforced Concrete Pipe
		C.M.P.	Corrugated Metal Pipe
		○ PT A	Percolation Test Location
		◆ TP 100	Deep Test Pit Location
			Stone Retaining Wall
			Retaining Wall
			Wetland Limit
		WL100	Wetland Flag Number
			Wetland Setback
			Benchmark
			Silt Fence
			Well (existing)
			Well (proposed)
			Anti-Mud Tracking Pad

No.	Date	REVISION DESCRIPTION
1.	1/17/2020	PLANNING & ZONING SUBMISSION

SCALE: 1"=30'

0 15 30 60 90

B&B ENGINEERING
15 Research Drive
Suite 3
Woodbridge, CT 06525
P: (203) 881-8145
www.bbengrs.com
Land Surveying, Professional Engineering & Land Use Consultants

SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS

OF

28 HILLSPOINT ROAD

WESTPORT, CONNECTICUT

PREPARED FOR

THE CONSERVATIVE SYNAGOGUE

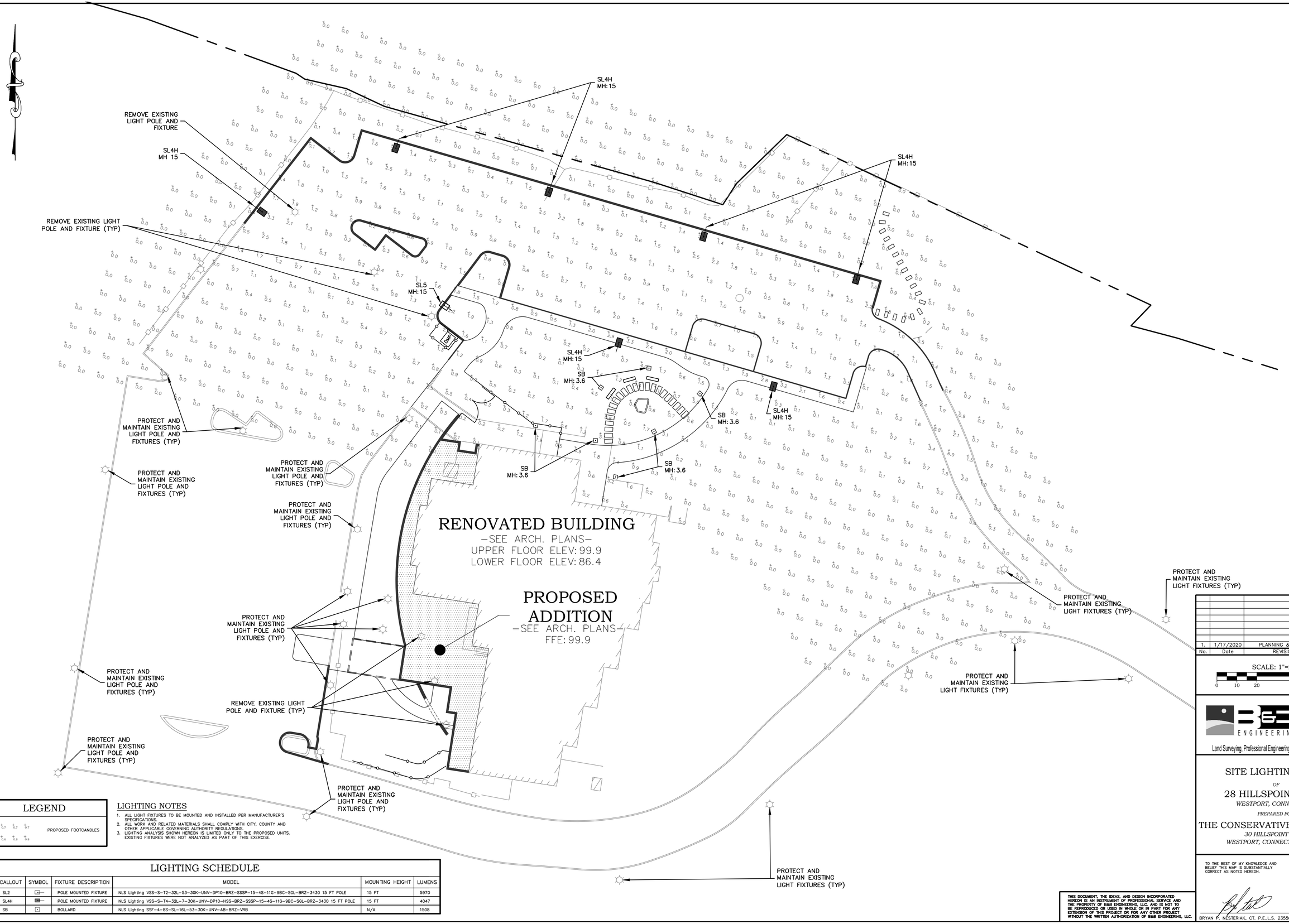
30 HILLSPOINT ROAD
WESTPORT, CONNECTICUT 06880

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, CT. P.E.,L.S. 23556

Date	1/10/2020
Scale	1"=30'
Job No.	973
Drawing No.	13-02

28 HILLSPOINT ROAD, WESTPORT, CT



LEGEND

0.7 0.7 0.7 0.7
0.8 0.6 0.8 0.8 PROPOSED FOOTCANDLES

LIGHTING NOTES

1. ALL LIGHT FIXTURES TO BE MOUNTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ALL WORK AND RELATED MATERIALS SHALL COMPLY WITH CITY, COUNTY AND OTHER APPLICABLE GOVERNING AUTHORITY REGULATIONS.
3. LIGHTING ANALYSIS SHOWN HEREON IS LIMITED ONLY TO THE PROPOSED UNITS. EXISTING FIXTURES WERE NOT ANALYZED AS PART OF THIS EXERCISE.

LIGHTING SCHEDULE

QTY	CALLOUT	SYMBOL	FIXTURE DESCRIPTION	MODEL	MOUNTING HEIGHT	LUMENS
1	SL2		POLE MOUNTED FIXTURE	NLS Lighting VSS-S-T2-32L-53-30K-UNV-DP10-BRZ-SSSP-15-4S-11G-9BC-SGL-BRZ-3430 15 FT POLE	15 FT	5970
7	SL4H		POLE MOUNTED FIXTURE	NLS Lighting VSS-S-T4-32L-7-30K-UNV-DP10-HSS-BRZ-SSSP-15-4S-11G-9BC-SGL-BRZ-3430 15 FT POLE	15 FT	4047
7	SB		BOLLARD	NLS Lighting SSF-4-8S-SL-16L-53-30K-UNV-AB-BRZ-VRB	N/A	1508

No.	Date	REVISION DESCRIPTION
1.	1/17/2020	PLANNING & ZONING SUBMISSION

SCALE: 1"=20'

0 10 20 40 60

B&B ENGINEERING
15 Research Drive
Suite 3
Woodbridge, CT 06525
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www.bbengrs.com
Land Surveying, Professional Engineering & Land Use Consultants

SITE LIGHTING PLAN

OF

28 HILLSPOINT ROAD

WESTPORT, CONNECTICUT

PREPARED FOR

THE CONSERVATIVE SYNAGOGUE

30 HILLSPOINT ROAD
WESTPORT, CONNECTICUT 06880

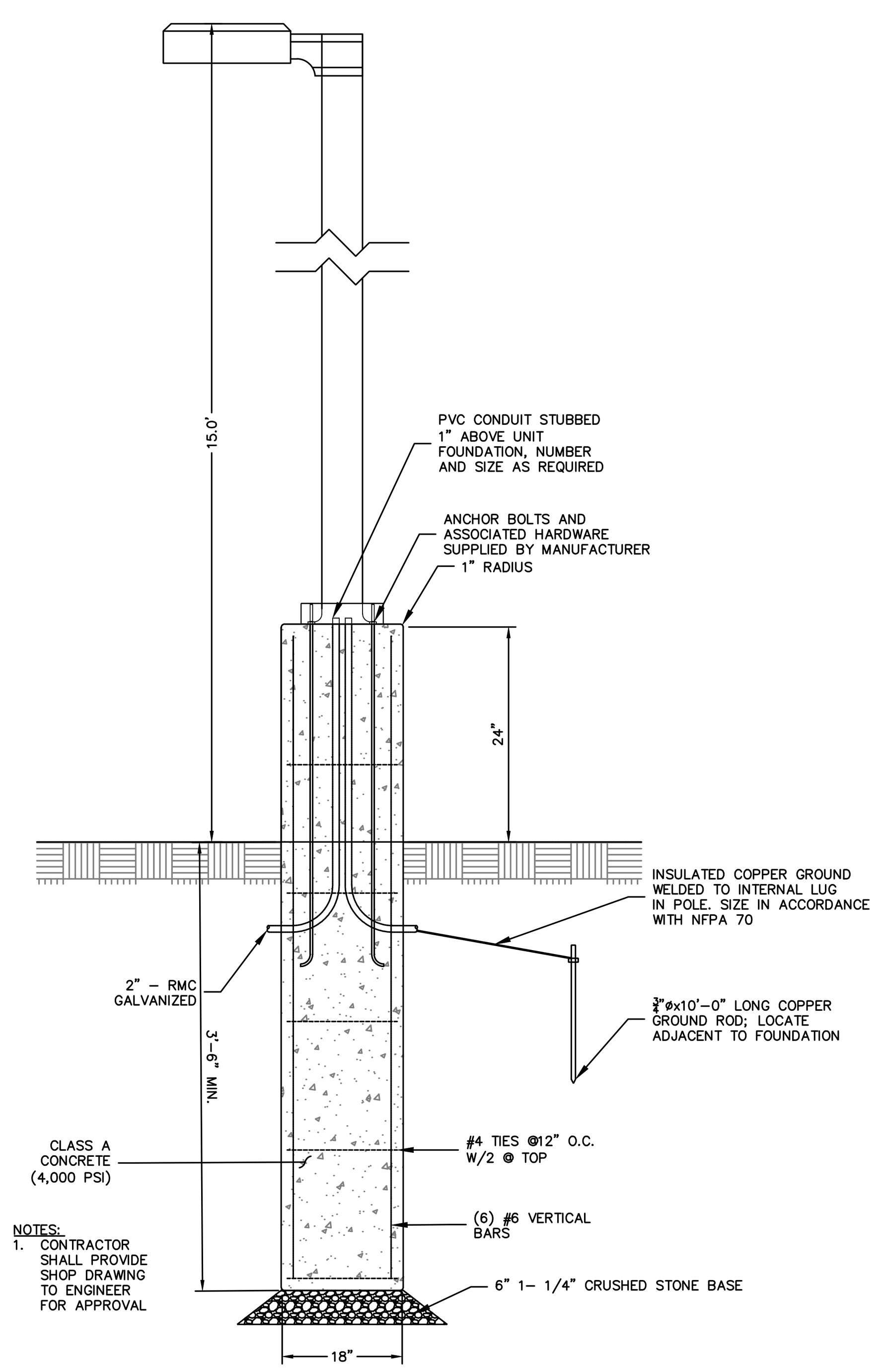
TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, CT. P.E.,L.S. 23556

Date	1/10/2020
Scale	1"=20'
Job No.	973
Drawing No.	19-01

LIGHT POLE

N.T.S



NOTES:
1. CONTRACTOR SHALL PROVIDE SHOP DRAWING TO ENGINEER FOR APPROVAL

NLS LIGHTING — VSS-S

SITE LIGHTING

FORM AND FUNCTION
- Sleek, low profile housing
- Engineered for optimum thermal management
- Low depreciation rate
- Optical system designed for:
  - Parking Lots
  - Commercial Applications

CONSTRUCTION
- Die Formed heavy duty Aluminum
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB

FINISH
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

LISTINGS
- Certified to UL 1598
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated

LED WATTAGE CHART

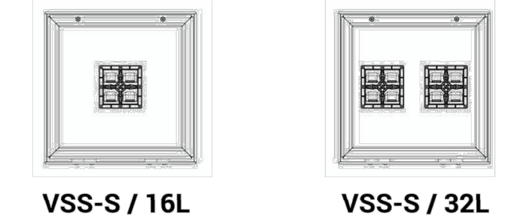
	16L	32L
350 milliamps	18w	-
530 milliamps	28w	56w
700 milliamps	36w	71w
1050 milliamps	56w	106w

Project Name: Type:

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Value Series Square Small **(VSS-S)**	Type 2 **(T2)** Type 3 **(T3)** Type 4 **(T4)** Type 5 **(T5)** Nema 3 30° Narrow Beam **(N3)**	16 **(16L)** 32 **(32L)**	350 **(35)** 530 **(53)** 700 **(7)** 1050 **(1)**	3000K **(30K)** 4000K **(40K)** 5000K **(50K)**	120-277 **(UNV)** 340-480 **(HV)**	Direct Pole Single, D180 6" **(DP6)** D90, T90, T120, QD 10" **(DP10)** *For Round Poles please order RPA Adaptor *See next page for Arm Configurations Knuckle Mount **(KM)** Wall Mount **(WM)** *Includes 6" Bolt On Arm Tennis Arm **(TA)**	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	Bird Spikes **(BS)** Marine Grade Finish **(MGF)** Surge Protector **(10K)** Nema 7-Pin Receptacle **(PE7)** Photocell **(PC)** *Universal Voltage 120-277 Photocell + Receptacle **(PCR)** Motion Sensor **(MS)** FSP-211 with Motion Sensor (UNV Voltage) For 8' + Below **(FSP-8)** For 9' to 20' **(FSP-20)** For 21' to 40' **(FSP-40)** *Motion Sensor and FSP-211 are integral to the fixture Quick Mount Bracket **(QMB)** Retrofit Quick Mount Bracket **(RQMB)** Internal Microwave Motion Sensor **(IMMS)** Rotate Optic Right **(ROR)** Rotate Optic Left **(ROL)** Round Pole Adaptor 3"-4" Pole **(RPA4)** Round Pole Adaptor 5"-6" Pole **(RPA5)** House Side Shields **(HSS)** *HSS not applicable with N3 - NEMA 30° Optics Automotive House Side Shield **(AHS)** Acrylic Optics **(AO)**

OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	BUG	T3 HSS	LM/W	BUG	T3	LM/W	DLC	BUG	T4 AHS	LM/W	T4 HSS	LM/W	BUG	T4	LM/W	DLC	BUG	T5	LM/W	DLC	BUG	W
VSS-S-16L-35-30K	2016	112	1980	110	P	B1-U0-G1	1044	58	B0-U0-G0	1944	108	P	B1-U0-G1	1296	72	1026	57	B0-U0-G0	2034	113	P	B1-U0-G1	2220	123	P	B2-U0-G1	18
VSS-S-16L-35-40K	2088	116	2142	119	P	B1-U0-G1	1116	62	B0-U0-G0	2106	117	P	B1-U0-G1	1368	76	1098	61	B0-U0-G0	2196	122	P	B1-U0-G1	2304	128	P	B2-U0-G1	18
VSS-S-16L-35-50K	2160	120	2304	128	P	B1-U0-G1	1188	66	B0-U0-G0	2268	126	P	B1-U0-G1	1440	80	1170	65	B0-U0-G0	2470	137	P	B1-U0-G1	2408	133	P	B2-U0-G1	18
VSS-S-16L-53-30K	3136	112	2968	106	S	B1-U0-G1	1624	58	B0-U0-G0	2940	105	S	B1-U0-G1	2016	72	1596	57	B0-U0-G1	3080	110	P	B1-U0-G1	3192	114	P	B2-U0-G1	28
VSS-S-16L-53-40K	3248	116	3220	115	P	B1-U0-G1	1736	62	B0-U0-G1	3192	114	P	B1-U0-G1	2128	76	1708	61	B0-U0-G1	3332	119	P	B1-U0-G1	3332	119	P	B2-U0-G1	28
VSS-S-16L-53-50K	3360	120	3472	124	P	B1-U0-G1	1848	66	B0-U0-G1	3416	122	P	B1-U0-G1	2240	80	1820	65	B0-U0-G1	3584	128	P	B1-U0-G1	3472	124	P	B2-U0-G1	28
VSS-S-16L-7-30K	4032	112	3672	102	S	B1-U0-G1	2088	58	B0-U0-G1	3636	101	S	B1-U0-G1	2592	72	2052	57	B0-U0-G1	3816	106	S	B1-U0-G1	3960	110	P	B3-U0-G1	36
VSS-S-16L-7-40K	4176	116	3996	111	P	B1-U0-G1	2232	62	B0-U0-G1	3924	109	P	B1-U0-G1	2736	76	2196	61	B0-U0-G1	4104	114	P	B1-U0-G1	4140	115	P	B3-U0-G1	36
VSS-S-16L-7-50K	4320	120	4284	119	P	B1-U0-G1	2376	66	B0-U0-G1	4248	118	P	B1-U0-G1	2880	80	2340	65	B0-U0-G1	4428	123	P	B1-U0-G1	4392	122	P	B3-U0-G1	36
VSS-S-16L-1-30K	6272	112	5544	99	S	B1-U0-G1	3248	58	B0-U0-G1	5488	98	S	B1-U0-G1	4032	72	3192	57	B0-U0-G1	5408	96	S	B1-U0-G1	5992	107	S	B3-U0-G1	56
VSS-S-16L-1-40K	6496	116	6048	108	S	B1-U0-G1	3472	62	B0-U0-G1	5936	106	S	B1-U0-G1	4256	76	3416	61	B0-U0-G1	5992	107	S	B1-U0-G2	6496	116	P	B3-U0-G1	56
VSS-S-16L-1-50K	6720	120	6496	116	P	B1-U0-G1	3696	66	B0-U0-G1	6384	114	P	B1-U0-G1	4480	80	3640	65	B0-U0-G1	6440	115	P	B1-U0-G2	6608	118	P	B3-U0-G2	56
VSS-S-32L-53-30K	6272	112	5936	106	S	B1-U0-G1	3248	58	B0-U0-G1	5880	105	S	B1-U0-G1	4032	72	3192	57	B0-U0-G1	6160	110	S	B1-U0-G2	6440	115	P	B3-U0-G2	56
VSS-S-32L-53-40K	6496	116	6440	115	P	B1-U0-G1	3472	62	B0-U0-G1	6384	114	P	B1-U0-G1	4256	76	3416	61	B0-U0-G1	6664	119	P	B2-U0-G2	6664	119	P	B3-U0-G2	56
VSS-S-32L-53-50K	6720	120	6944	124	P	B1-U0-G1	3696	66	B0-U0-G1	6832	122	P	B2-U0-G2	4480	80	3640	65	B0-U0-G1	7168	128	P	B2-U0-G2	6888	123	P	B3-U0-G2	56
VSS-S-32L-7-30K	7952	112	7242	102	S	B1-U0-G1	4118	58	B0-U0-G1	7171	101	S	B2-U0-G2	5112	72	4047	57	B0-U0-G1	7455	105	S	B2-U0-G2	7810	110	S	B3-U0-G2	71
VSS-S-32L-7-40K	8236	116	7881	111	S	B2-U0-G2	4402	62	B0-U0-G1	7739	109	S	B2-U0-G2	5396	76	4331	61	B0-U0-G1	8094	114	P	B2-U0-G2	8165	115	P	B3-U0-G2	71
VSS-S-32L-7-50K	8520	120	8520	120	P	B2-U0-G2	4686	66	B0-U0-G1	8378	118	P	B2-U0-G2	5680	80	4615	65	B0-U0-G2	8733	123	P	B2-U0-G2	8449	119	P	B3-U0-G2	71
VSS-S-32L-1-30K	11872	112	10494	99	S	B2-U0-G2	6148	58	B0-U0-G2	10265	97	S	B2-U0-G2	7632	72	6042	57	B0-U0-G2	10494	99	S	B2-U0-G2	11342	107	S	B4-U0-G2	106
VSS-S-32L-1-40K	12296	116	11448	108	S	B2-U0-G2	6572	62	B0-U0-G2	11342	107	S	B2-U0-G2	8056	76	6466	61	B0-U0-G2	11342	107	S	B2-U0-G2	12296	116	S	B4-U0-G2	106
VSS-S-32L-1-50K	12720	120	12402	117	S	B2-U0-G2	6996	66	B0-U0-G2	12190	115	S	B2-U0-G2	8480	80	6890	65	B0-U0-G2	12190	115	S	B2-U0-G2	12508	118	S	B4-U0-G2	106

*DLC S= Standard P= Premium

DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
VSS-S	6"	10"	6"	10"	10"	10"

6" - DPX6 | 10" - DPX10

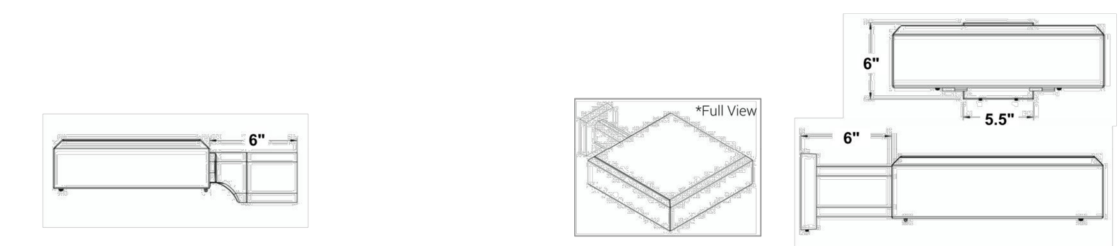
EPA

EPA	SGL	D90	D180	T90	T120	QD
VSS-S	0.59	0.87	1.18	1.43	1.49	1.43

L70/L90 DATA

Temp.	VSS-S			
	L70 (16L)	L90 (16L)	L70 (32L)	L90 (32L)
25°C	483,000	180,000	483,000	>60,000
	L70 (16L)	L90 (16L)	L70 (32L)	L90 (32L)
50°C	550,000	180,000	190,000	>60,000

MOUNTING OPTIONS



DIRECT POLE (DP)
Standard mounting arm is extruded aluminum in lengths of 6", And 10"
*Arm lengths may vary depending on configuration

WALL MOUNT (WM)
Cast Aluminum Plate for direct wall mount.
6" extruded aluminum arm mounts directly to a cast wall mount box.

NLS LIGHTING 701 Kingshill Place, Carson, CA 90746 **Call Us Today** (310) 341-2037 **nlslighting.com**

PRODUCT SPECIFICATIONS

Housing: Aluminum; Heavy Duty Spun Aluminum Cap
LED: Lumileds Luxeon MX. CRI 70
Optics: Star Power COG45, SL and PR
Watts: 17-35
Listings: UL 1598 Listed

Driver: 0-10V Dimming driver as standard by Philips Advance
THD @ Max Load < 15%
Power Factor @ Max Load < 0.95
Kelvin: 3000, 4000, or 5000
Finish: 5 mils Powder Coat
Warranty: Standard Warranty is 5 years for Driver and LEDs

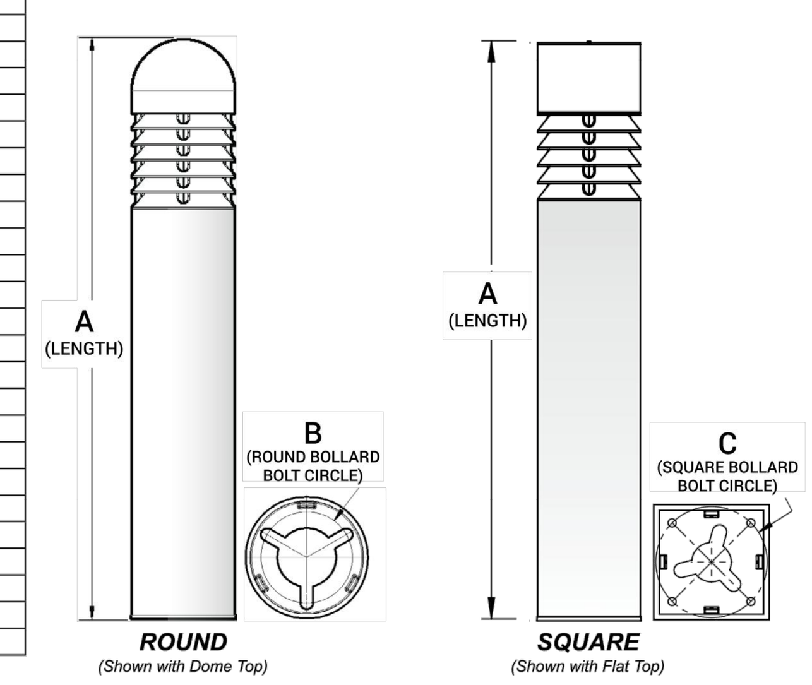
PRODUCT DIMENSIONS

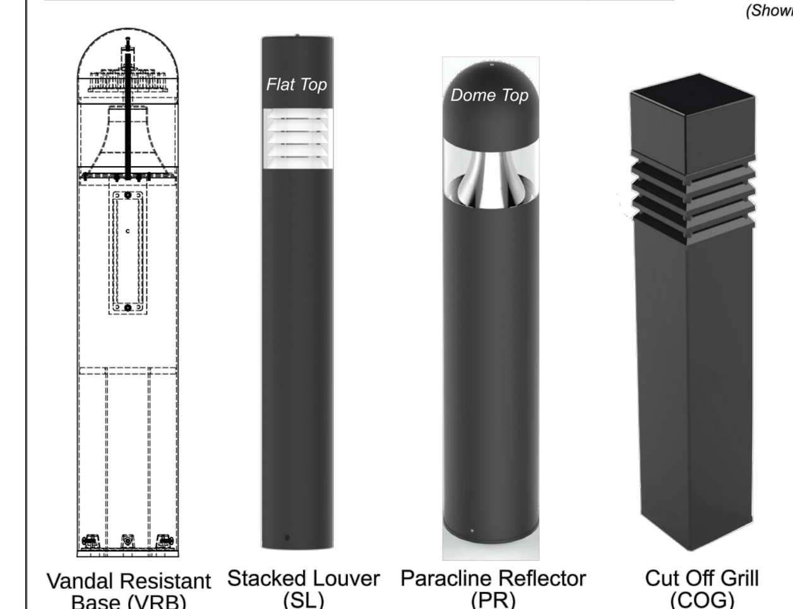
SEA SIDE BOLLARD - LUMEN DATA CHART

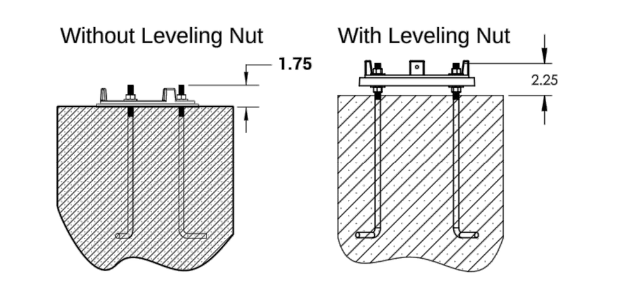
PART NUMBER	T5 Lumens	T5 Lm/W	Watts
SSX-X-XX-COG45-16L-35-30K	765	45	17
SSX-X-XX-COG45-16L-35-40K	850	50	17
SSX-X-XX-COG45-16L-35-50K	935	55	17
SSX-X-XX-COG45-16L-53-30K	1170	45	26
SSX-X-XX-COG45-16L-53-40K	1300	50	26
SSX-X-XX-COG45-16L-53-50K	1430	55	26
SSX-X-XX-COG45-16L-7-30K	1575	45	35
SSX-X-XX-COG45-16L-7-40K	1750	50	35
SSX-X-XX-COG45-16L-7-50K	1925	55	35
SSX-X-XX-SL-16L-35-30K	986	58	17
SSX-X-XX-SL-16L-35-40K	1054	62	17
SSX-X-XX-SL-16L-35-50K	1105	65	17
SSX-X-XX-SL-16L-53-30K	1508	58	26
SSX-X-XX-SL-16L-53-40K	1612	62	26
SSX-X-XX-SL-16L-53-50K	1690	65	26
SSX-X-XX-SL-16L-7-30K	2030	58	35
SSX-X-XX-SL-16L-7-40K	2170	62	35
SSX-X-XX-SL-16L-7-50K	2275	65	35
SSX-X-XX-PR-16L-35-30K	1309	77	17
SSX-X-XX-PR-16L-35-40K	1377	81	17
SSX-X-XX-PR-16L-35-50K	1428	84	17
SSX-X-XX-PR-16L-53-30K	2002	77	26
SSX-X-XX-PR-16L-53-40K	2106	81	26
SSX-X-XX-PR-16L-53-50K	2184	84	26
SSX-X-XX-PR-16L-7-30K	2695	77	35
SSX-X-XX-PR-16L-7-40K	2835	81	35
SSX-X-XX-PR-16L-7-50K	2975	85	35

DIMENSION	6" ROUND	8" ROUND
A	26", 36", or 42"	26", 36", or 42"
B	3-5/8"	6"

DIMENSION	8" SQUARE
A	26", 36", or 42"
C	7.75"







*Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.
*Must Specify 4-Bolt Pattern.

NLS LIGHTING 701 Kingshill Place, Carson, CA 90746 **Call Us Today** (310) 341-2037 **nlslighting.com**

EXISTING SITE LIGHTING

1. HEIGHT OF EXISTING LIGHT POLE=11.5'

NLS LIGHTING — SQUARE STRAIGHT STEEL POLE

POLES + BASES

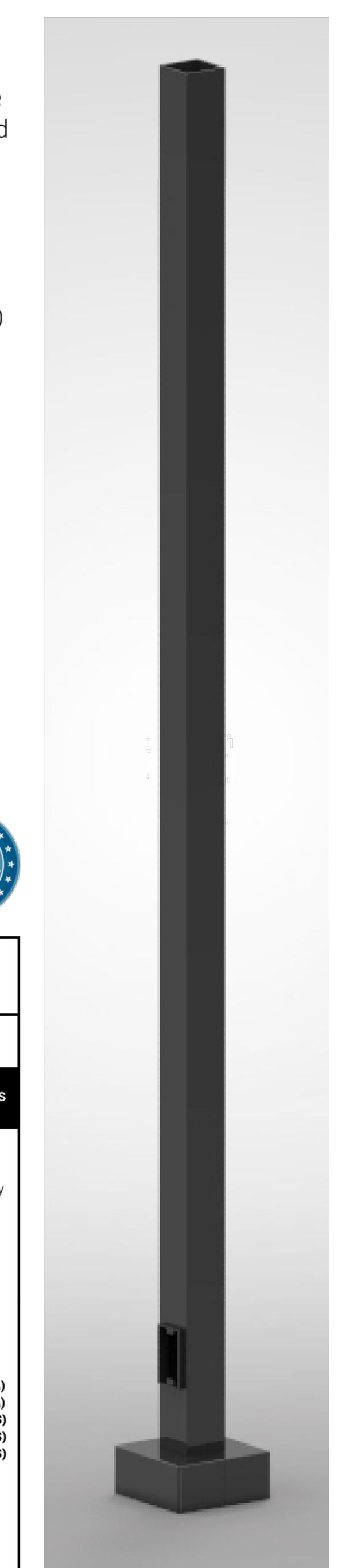
SHAFT
Shall be Straight Steel Grade B Extrusion with yield of 46,000 PSI. Conforms to ASTM A500 Standards. Poles have ground lug welded inside hand-hole opposite side of the pole extrusion. Pole Extrusion is conjoined to Anchor Base by welding internal to pole shaft and external to pole shaft. Hand Hole reinforcement is Constructed of 3"x 5" rectangular steel tubing which is welded to pole shaft for added strength.

ANCHOR BASE
Manufactured from A36 Steel rated at 36,000 PSi, conforms the ASTM –A36 standards. Base Plate vary in size from 1" thick for poles 21 feet and over, 3/4" thick for poles 10 to 20 feet.

FINISH
All poles have minimum 3 to 5 mils powder coat finish. All poles are sandblasted prior to powder coat application.

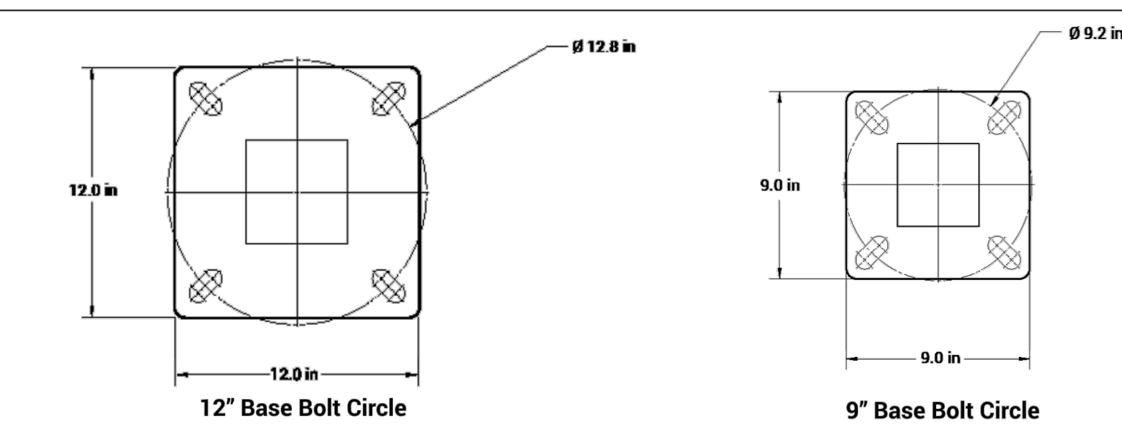
ANCHORAGE
All anchor bolts are fully hot dipped galvanized and come with two galvanized nuts and washers per bolt. Anchor bolts are not included for Custom Bolt Circle.

BASE COVER, HAND HOLE COVER AND POLE CAP
All poles come with removable polymer pole cap installed. All poles caps are black finish. All base covers are made of aluminum and powder coated to match the pole. The hand hole covers are provided with internal bridge support and also powder coated to match pole finish.



Project Name: Type:

Cat #	Height	Pole Dim.	Size	Base Pattern	Orient	Color	Bolts	Enhancements
Square Straight Steel Pole **(SSSP)**	10' **(10)** 12' **(12)** 14' **(14)** 16' **(16)** 18' **(18)** 20' **(20)** 22' **(22)** 24' **(24)** 25' **(25)** 26' **(26)** 28' **(28)** 30' **(30)** 35' **(35)**	4" Square **(4S)** 5" Square **(5S)** 6" Square **(6S)**	.120 in **(11G)** .180 in **(7G)**	(10'-20') 8 3/16 - 10 3/16" Bolt Circle **(9BC)** (22'-35') 11½ - 14" Bolt Circle **(12BC)** (39') 15 in Bolt Circle **(15BC)**	Single **(SGL)** Double **(D-90)** **(D-180)** Triple **(T-90)** Quad **(QD)** No Drill **(ND)** *Tenon Option	Bronze **(BRZ)** White **(WHT)** Silver **(SVR)** Green **(GRN)** Hunter Green **(HGN)** Black **(BLK)** Graphite **(GPH)** Grey **(GRY)** Custom **(CS)**	3/4" x 30" **(3430)** 1" x 36" **(136)** Less Anchor Bolts **(LAB)**	GFI Kit **(GFI)** GFI Provision Only **(PROV)** Galvanized **(GLV)** Anti Corrosion **(ACP)** **Tenon** 2 3/8" Round **(T2R)** 3" Round **(T3R)** 3 ½" Round **(T312R)** 4 ½" Round **(T412R)** 3 ½" Square **(T312S)** 4 ½" Square **(T412S)** 5 ½" Square **(T512S)**



*Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.
*Must Specify 4-Bolt Pattern.

POLE EPA DATA

Maximum EPA (ft) Allowable

POLE HEIGHT	POLE DIA.	SIZE	BASE PLATE	BOLT CIRCLE BOLTS	BOLTS	80 Mph	90 Mph	100 Mph
10'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	26.8	18.7	15.5
12'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	20.5	15.5	9.7
14'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	16.5	11.4	9.7
15'	4" SQ	.180	9" Sq. x ¾"	9 3/16"	¾" x 30"	18.2	12.2	10.4
16'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	13.5	9.8	8.6
17-½'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	12.4	9.0	7.2
18'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	9.8	7.2	5.4
20'	4" SQ	.120	9" Sq. x ¾"	9 3/16"	¾" x 30"	8.2	5.5	4.0
20'	4" SQ	.180	9" Sq. x ¾"	9 3/16"	¾" x 30"	14.5	10.0	7.6
20'	5" SQ	.120	12" Sq. x 1"	9 3/16"	¾" x 30"	16.2	11.3	7.9
20'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	26.2	21.2	15.4
22'	4" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	6.3	3.7	1.8
22'	4" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	11.8	7.9	5.3
22'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	12.5	8.3	5.4
22'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	21.1	15.2	10.9
24'	4" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	5.3	2.7	1.5
24'	4" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	10.8	6.8	4.2
24'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	5.3	2.7	1.5
24'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	19.8	13.7	9.1
25'	4" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	4.7	2.5	1.2
25'	4" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	10.9	7.4	5.2
25'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	10.2	6.6	1.6
25'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	18.9	13.2	9.6
26'	4" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	4.7	2.5	1.2
26'	4" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	10.7	7.1	4.9
26'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	9.8	6.3	1.3
26'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	18.5	12.9	9.4
28'	4" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	6.0	2.2	1.6
28'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	5.8	3.2	1.5
28'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	12.2	7.8	4.6
28'	6" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	21.7	14.6	9.8
30'	5" SQ	.120	12" Sq. x 1"	12 ¾"	1"x 36"	5.2	2.3	-
30'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	11.6	6.9	4.1
30'	6" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	18.8	12.7	8.3
32'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	10.1	4.9	2.6
32'	6" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	16.6	8.4	5.2
35'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	6.8	2.4	1.9
35'	6" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	12.2	7.1	3.9
39'	5" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	3.1	-	-
39'	6" SQ	.180	12" Sq. x 1"	12 ¾"	1"x 36"	7.3	3.0	-

NLS LIGHTING 701 Kingshill Place, Carson, CA 90746 **Call Us Today** (310) 341-2037 **nlslighting.com**

333334

28 HILLSPOINT ROAD, WESTPORT, CT

No.	Date	REVISION DESCRIPTION
1.	1/17/2020	PLANNING & ZONING SUBMISSION

SCALE: 1"=20'

0 10 20 40 60

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SITE LIGHTING NOTES & DETAILS

OF

28 HILLSPOINT ROAD

WESTPORT, CONNECTICUT

PREPARED FOR

THE CONSERVATIVE SYNAGOGUE

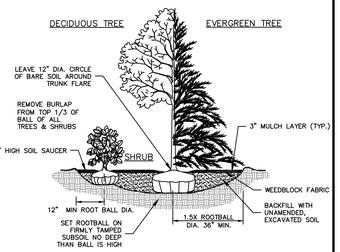
30 HILLSPOINT ROAD
WESTPORT, CONNECTICUT 06880

TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, CT. P.E.,L.S. 23556

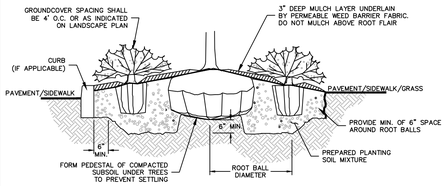
Date	1/10/2020
Scale	1"=20'
Job No.	973
Drawing No.	19-02

PLANTING BED DETAIL



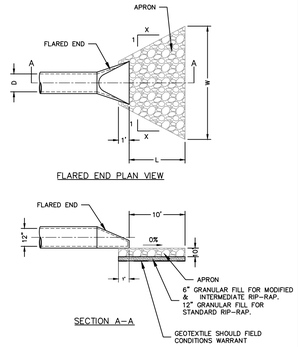
1. ALL EVERGREEN TREES SHALL BE 8'-10' IN HEIGHT.
2. ALL SHADE TREES SHALL BE MINIMUM 3"-4" IN CALIPER.

PLANTING BED

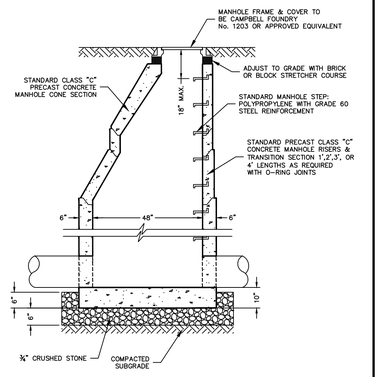


1. ISLAND/BED SHALL BE FREE OF DEBRIS AND RUBBLE PRIOR TO PLANTING OPERATION.
2. EXISTING UNDERLYING SOILS SHALL BE SCARIFIED PRIOR TO SOIL PLACEMENT.
3. PLANTS SHALL BE SET AT GRADE EVEN WITH ORIGINAL NURSERY GRADE.
4. PLANTING PIT TO BE 6 DEEPER AND 12" WIDER THAN BALL OR WIDEST SPREAD OF BARE ROOTS. A SINGLE TRENCH SHALL BE DUG FOR ALL SHRUBS IN A BED OR HEDGE.
5. DO NOT ADD FERTILIZER TO PLANTING SOIL FOR FALL PLANTING.
6. IN ROCK, OVER EXCAVATE TO PROVIDE A MINIMUM PLANTING PIT SIZE 3' DIAMETER BY 3' DEEP. PROVDE FULL DEPTH PLANTING MIX COMPACTED BELOW BALL.

LEVEL SPREADER

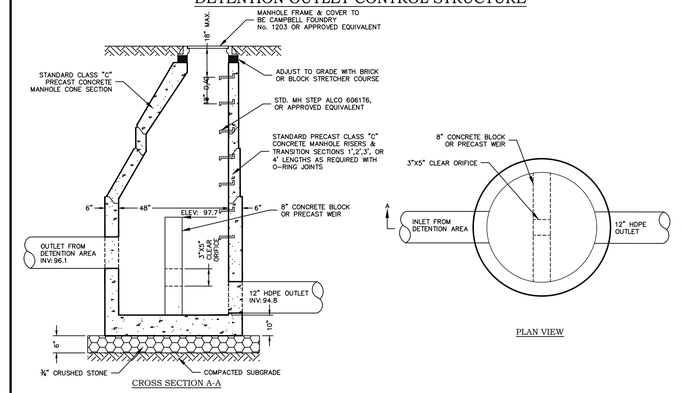


STORM MANHOLE



NOTES:
1. DIAMETER OF MANHOLE SHALL BE REVIEWED BY THE CONTRACTOR TO DETERMINE A LEGEND OF STANDARD MANHOLE DIMENSIONS WITH RESPECT TO PROPOSED PIPE SIZES, NUMBER AND GEOMETRY. OVER SIZE MANHOLES SHALL BE PROVIDED IF MINIMUM 6" WALL DIMENSION BETWEEN PIPES IS NOT MANUFACTURED.
2. MANHOLES SHALL BE STANDARD PRECAST CONCRETE UNITS AND SHALL BE DESIGNED AND CONSTRUCTED BY THE MANUFACTURER TO SUPPORT TRUCK H-20 LOADING.

DETENTION OUTLET CONTROL STRUCTURE



NOTES:
1. MANHOLE SHALL BE STANDARD PRECAST CONCRETE UNITS AND SHALL BE DESIGNED AND CONSTRUCTED BY THE MANUFACTURER TO SUPPORT TRUCK H-20 LOADING.

EXISTING SIGN

1. EXISTING SIGN FOR THE COMMUNITY SYNAGOGUE WILL BE RELOCATED TO A MINIMUM OF 15 FEET FROM THE STREET PROPERTY LINE.
2. TOTAL SQUARE FOOTAGE OF SIGN: (12"X40")/144= 3.3 S.F. PER SIDE; TWO SIDED SIGN=6.6 S.F. TOTAL

DEEP TESTS

TESTED ON 5/23/2017 BY RICH BENNET P.E.

TP 1
0"–6" TOPSOIL
6"–72" SILTY SAND WITH BLASTED ROCK (CLEAN FILL)
NO WATER
NO MOTTLING
LEDGE @ 72"

TP 2
0"–4" ASPHALT/GRAVEL
4"–32" SILTY SAND WITH BLASTED ROCK (CLEAN FILL)
NO WATER
NO MOTTLING
LEDGE @ 48"

TP 3
0"–6" TOPSOIL
6"–29"
NO WATER
NO MOTTLING
LEDGE @ 29"

TP 4
0"–6" TOPSOIL
6"–24" BROWN SILTY LOAM
NO WATER
NO MOTTLING
LEDGE @ 24"

TP 5
0"–6" TOPSOIL
6"–36" CLEAN FILL
36"–48" BLACK ORGANIC
48"–76" CLEAN FILL
NO WATER
NO MOTTLING
NO LEDGE

TP 6
0"–6" TOPSOIL
6"–51" CLEAN FILL (SILTY SAND WITH ROCK)
NO WATER
NO MOTTLING
LEDGE @ 51"

TP 7
0"–6" TOPSOIL
6"–32" CLEAN FILL (SANDY SILT)
32"–66" BLACK ORGANIC
66"–76" CLEAN FILL (SANDY SILT)
NO WATER
MOTTLING @ 32" (PERCHED)
NO LEDGE

TP 8
LEDGE @ 36"

TP 9
0"–18" TOPSOIL/MISC. FILL
18"–44" BROWN SILTY LOAM
WATER @ 44
NO MOTTLING
LEDGE @ 44"

TP 10
LEDGE @ 28"

TP 11
LEDGE @ 12"

TP 12
0"–4" TOPSOIL
4"–22" RED BROWN SILTY LOAM
22"–46" TAN SAND
NO WATER
NO MOTTLING
LEDGE @ 46"

TP 13
0"–4" TOPSOIL
4"–28" RED BROWN SILTY LOAM
28"–40" TAN SAND
40"–61" OLIVE BROWN SANDY GRAVEL
NO WATER
NO MOTTLING
NO LEDGE

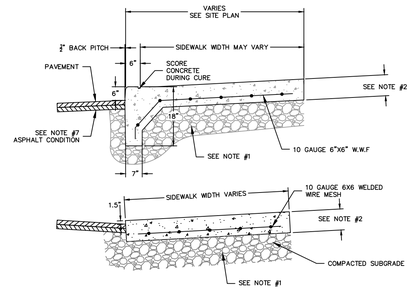
TP 14
0"–6" TOPSOIL
6"–26" RED BROWN SILTY LOAM
26"–74" OLIVE BROWN SAND, SOME SILT
NO WATER
NO MOTTLING
LEDGE @ 74"

TP 15
0"–6" TOPSOIL
6"–42" RED BROWN SILTY LOAM
NO WATER
NO MOTTLING
LEDGE @ 42"

TP 16
0"–20" TOPSOIL/MISC. FILL
20"–76" BROWN SAND AND GRAVEL, TRACE SILT
NO WATER
NO MOTTLING
LEDGE @ 76"

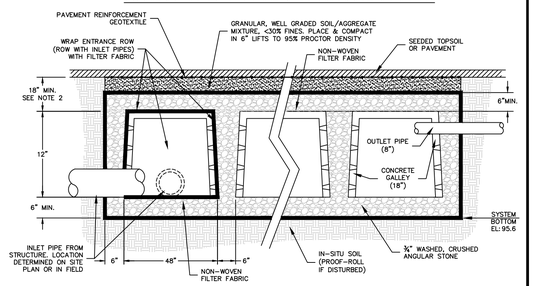
TP 17
0"–18" TOPSOIL/ MISC. FILL
18"–40" TAN SAND & GRAVEL
NO WATER
NO MOTTLING
LEDGE @ 40"

CONCRETE MONOLITHIC SIDEWALK AND CURB



NOTES
1. EXISTING GRAVEL BASE FOR CURBING, SIDEWALK AND PAVEMENT REPAIRS SHALL BE SUPPLEMENTED WITH COMPACTED ¾" PROCESSED AGGREGATE AS REQUIRED, AT LEAST A 6" DEEP PROPER BASE IS REQUIRED AT ALL TIMES.
2. CONCRETE SIDEWALK THICKNESS SHALL BE AT LEAST 4" THICK. AREAS OF DRIVEWAY APRONS SHALL BE AT LEAST 6" THICK.
3. SIDEWALK AND CURBING SHALL BE REINFORCED WITH 10 GAUGE 6"X6"W.W.F 2" OFF THE SUBBASE. A #4 REBAR SHALL BE PROVIDED IN THE TOP-OUTER CORNER OF THE CURB. CONCRETE SHALL BE CLASS "C" HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. AND 5" ENTRAINED AIR.
4. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS OR AS OTHERWISE DIRECTED BY THE ENGINEER. AT A MINIMUM A CONTRACTION JOINT SHALL BE PLACED AT 5' INTERVALS WITH AN EXPANSION JOINT AT 20' INTERVALS.
5. THE TOTAL WIDTH OF CONCRETE CURBING AND SIDEWALK SHALL NOT BE LESS THAN 5'0" AT A ¼" PER FOOT CROSS PITCH, EXCEPT WHERE OTHERWISE DIRECTED BY THE ENGINEER.
6. CURBING EXTENDING ACROSS DRIVEWAYS SHALL PROVIDE A 2" REVEAL AT THE GUTTER LINE. THE SIDEWALK PANELS SHALL BE RAMPED AT DRIVEWAY CROSSINGS IN ACCORDANCE TO A.D.A. SPECIFICATIONS FOR HANDICAP ACCESS. AT NO POINT SHALL THE PITCH OF THE FINISHED CONCRETE EXCEED 1:12.
7. WHERE ADJOINING BITUMINOUS CONCRETE DRIVEWAY OR ROADWAY PAVEMENT IS DAMAGED OR REMOVED, THE LIMITS OF DISTURBANCE SHALL BE DELINEATED WITH A CLEAN VERTICAL CUT 18" FROM GUTTER LINE OF THE PAVEMENT AND SHALL BE RESTORED WITH CLASS 1 BITUMINOUS CONCRETE. RESTORATION SHALL BE TO THE FULL PRIOR PAVEMENT DEPTH, BUT SHALL NOT BE LESS THAN 2" FOR DRIVEWAYS.
8. IN ORDER TO ACCOMMODATE THE INSTALLATION OF EXISTING OR PROPOSED SIGNAGE, A 4" DIAMETER PVC POST SLEEVE SHALL BE PLACED WITHIN THE SIDEWALK. THE TOP OF THE SLEEVE SHALL BE SET FLUSH WITH THE SURFACE OF THE SIDEWALK AND SHALL EXTEND VERTICALLY THROUGH THE FULL DEPTH OF THE CONCRETE. SLEEVES SHALL BE INSTALLED 14" BACK FROM THE FACE OF THE CURBING OR AT THE LOCATION(S) SPECIFIED BY THE ENGINEER.

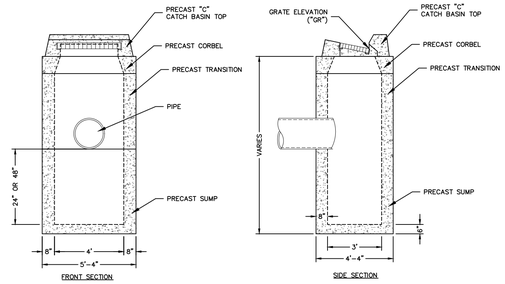
CONCRETE GALLEY DETENTION SYSTEM



NOTES
1. SEE PLAN FOR QUANTITY, LOCATION, & ARRANGEMENT OF GALLEYS.
2. PAVEMENT REINFORCEMENT GRID SHALL BE INSTALLED IN AREAS WHERE COVER IS LESS THAN 18" OVER CONCRETE GALLEYS.
3. ALL TOPSOIL AND MISCELLANEOUS FILL SHALL BE REMOVED BELOW THE DETENTION AREA.
4. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
5. IF LEDGE OR GROUNDWATER IS ENCOUNTERED WHILE EXCAVATING FOR THE PROPOSED SYSTEM, THE DESIGN ENGINEER SHALL BE NOTIFIED IN ORDER TO DETERMINE IF FIELD CHANGES ARE NECESSARY.

CURB CATCH BASIN ("CCB")

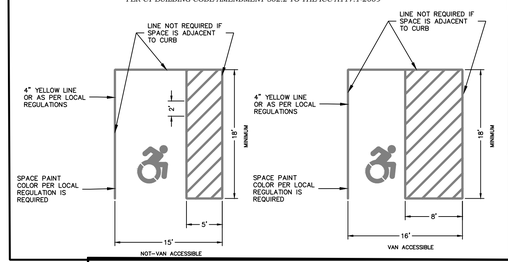
-PRECAST-



NOTES
1. THE ABOVE DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE SITE ENGINEER FOR APPROVAL.
2. ALL CATCH BASIN STRUCTURES SHALL CONFORM TO CTDOT STANDARDS.
3. ALL CATCH BASINS SHALL BE OUTFITTED WITH HOODS AND 4' SUMPS, UNLESS OTHERWISE NOTED.
4. CONTRACTOR IS RESPONSIBLE FOR SIZING AND CONFIGURING CATCH BASIN PROPERLY. THIS DETAIL IS FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL CONFIGURATION MAY BE DIFFERENT THAN SHOWN FOR THE PROPOSED STRUCTURES.
5. CAST-IN-PLACE OR CUSTOM CAST STRUCTURES MAY BE SUBSTITUTED FOR PRECAST UNITS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE SITE ENGINEER FOR APPROVAL.

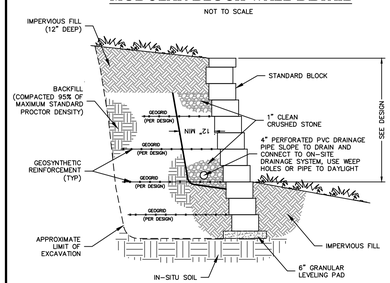
ACCESSIBLE PARKING STALL DETAIL

PER CT BUILDING CODE AMENDMENT 502.2 TO THE ICC A117.1-2009



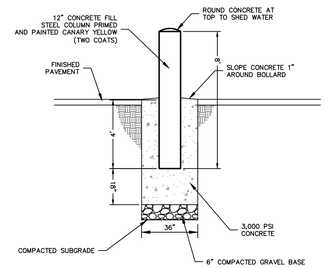
MODULAR BLOCK WALL DETAIL

NOT TO SCALE

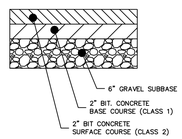


NOTES:
1. DETAIL IS SHOWN FOR GENERAL CONCEPT OF A GEOGRID REINFORCED MODULAR BLOCK RETAINING WALL. CONTRACTOR MAY SUBMIT ALTERNATE WALL CONCEPTS FOR OWNER, ENGINEER, AND/OR CITY APPROVAL.
2. AUGERING INTO THE GEOGRID WILL NOT BE PERMITTED.

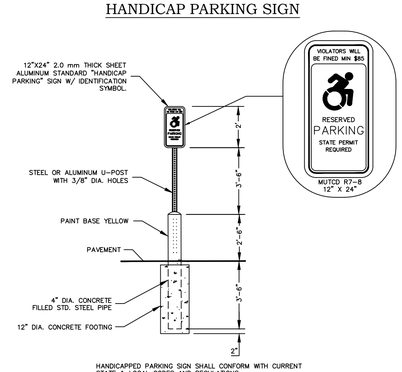
BOLLARD



TYPICAL PAVEMENT CROSS SECTION



HANDICAP PARKING SIGN



HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE & LOCAL CODES AND REGULATIONS.

No.	Date	REVISION DESCRIPTION
1.	1/17/2020	PLANNING & ZONING SUBMISSION

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CONSTRUCTION DETAILS AND NOTES
OF
28 HILLSPOINT ROAD
WESTPORT, CONNECTICUT

PREPARED FOR

THE CONSERVATIVE SYNAGOGUE
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TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, CT. P.E.,L.S. 23556

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28 HILLSPOINT ROAD, WESTPORT, CT